CFD-S26L/S36L

SERVICE MANUAL

AEP Model
UK Model

Ver 1.1 2001.04

Photo: Silver

CD Section	Model Name Using Similar Mechanism	CFD-S22L/S32L
	CD Mechanism Type	KSM-213CDP
	Optical Pick-up Name	KSS-213C
TC Section	Model Name Using Similar Mechanism	CFD-V7L
	Tape Transport Mechanism Type	MF-V5-117

SPECIFICATIONS

CD player section

System
Compact disc digital audio system
Laser diode properties
Material: GaAlAs
Wave length: 780 nm
Emission duration: Continuous
Laser output: Less than 44.6 µW
(This output is the value measured at a distance of about 200 mm from the objective lens surface on the optical pick-up block with 7 mm aperture.)
Spindle speed
200 r/min (rpm) to 500 r/min (rpm) (CLV)
Number of channels
2
Frequency response
20 - 20,000 Hz +1/–2 dB
Wow and flutter
Below measurable limit

Radio section

Frequency range

FM	87.5 - 108 MHz
MW	531 - 1,602 kHz (9 kHz step) 530 - 1,610 kHz (10 kHz step)
LW	153 - 279 kHz

IF
FM: 10.7 MHz
MW/LW: 450 kHz
Aerials
FM: Telescopic aerial
MW/LW: Built-in ferrite bar aerial

Cassette-corder section

Recording system
4-track 2 channel stereo
Fast winding time
Approx. 120 sec. with Sony cassette C-60
Frequency response
TYPE I (normal): 70 - 10,000 Hz

General

Speaker
Full range: 10 cm dia.,
3.2 ohms, cone type (2)
Outputs
Headphones jack (stereo minijack)
For 16 - 68 ohms impedance headphones
Maximum power output
4.6 W
Power requirements
For CD radio cassette-corder:
230 V AC, 50 Hz
9 V DC, 6 size D (R20) batteries
For remote control (CFD-S36L)
3 V DC, 2 size AA (R6) batteries
Power consumption
AC 20 W

– Continued on next page –

CD RADIO CASSETTE-CORDER

9-873-084-12
2001D0400-1
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Sony Corporation
Personal Audio Company
Shinagawa Tec Service Manual Production Group

SONY®

Battery life

For CD radio cassette-corder:

FM recording
Sony R20P: approx. 13.5 h
Sony alkaline LR20: approx. 20 h
Tape playback
Sony R20P: approx. 7.5 h
Sony alkaline LR20: approx. 15 h
CD playback
Sony R20P: approx. 2.5 h
Sony alkaline LR20: approx. 7 h

Dimensions

Approx. 420 × 159 × 284 mm (w/h/d)
(16 5/8 × 6 3/8 × 11 1/4 inches) (incl. projecting parts)

Mass

Approx. 3.8 kg (8 lb. 6 oz.) (incl. batteries)

Supplied accessories

Mains lead (1)
Remote control RMT-CS36AD (1) (CFD-S36L)

Design and specifications are subject to change without notice.

This Compact Disc player is classified as a CLASS 1 LASER product.
The CLASS 1 LASER PRODUCT mark is located at the rear.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Flexible Circuit Board Repairing

- Keep the temperature of the soldering iron around 270˚C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

Notes on Chip Component Replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic breakdown because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.
During repair, pay attention to electrostatic breakdown and also use the procedure in the printed matter which is included in the repair parts.
The flexible board is easily damaged and should be handled with care.

NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

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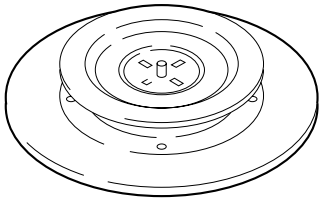
SECTION 1
SERVICING NOTES

CHUCK PLATE JIG ON REPAIRING

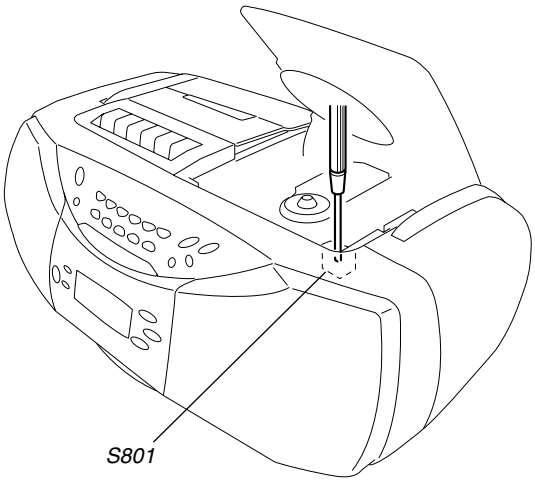
On repairing CD section, playing a disc without the lid (CD), use Chuck Plate Jig.

• Code number of Chuck Plate Jig: X-4918-255-1



LASER DIODE AND FOCUS SEARCH OPERATION CHECK

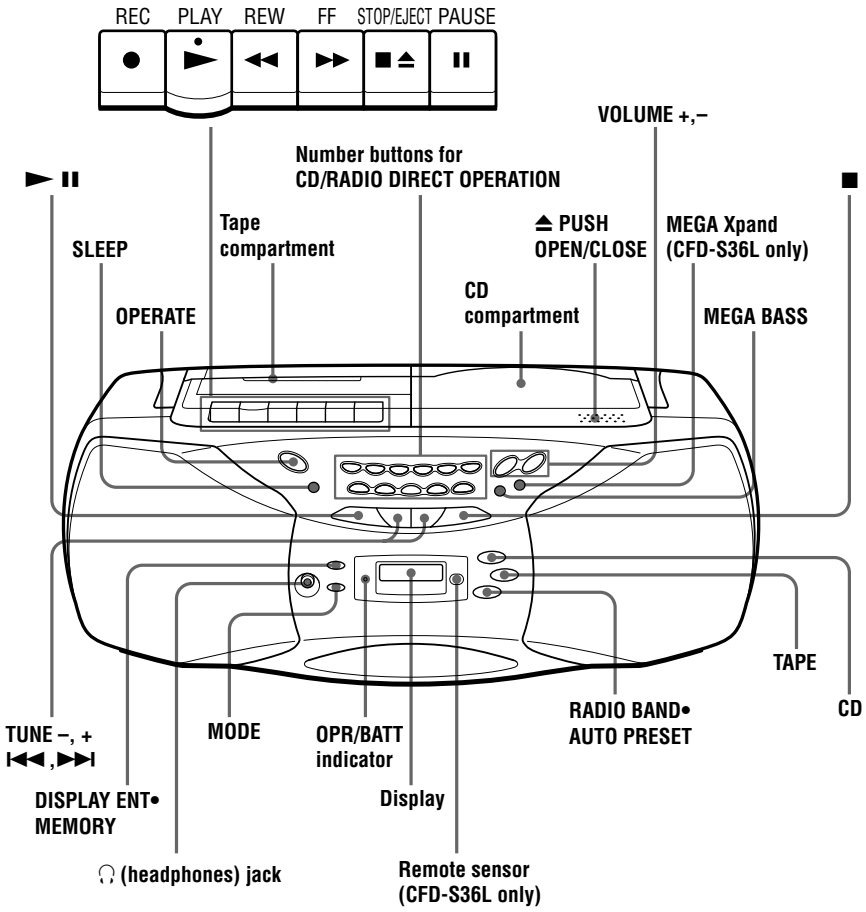
1. Turn ON the POWER button and press FUNCTION button to CD position.
2. Open the lid (CD).
3. Turn on S801 with screwdriver, etc. as following figure.
4. Press the CD ► II button.
5. Confirm the laser diode emission while observing the objecting lens. When there is no emission, Auto Power Control circuit or Optical Pick-up is broken.
   Objective lens moves up and down three times for focus search.



SECTION 2
GENERAL

This section is extracted from instruction manual.

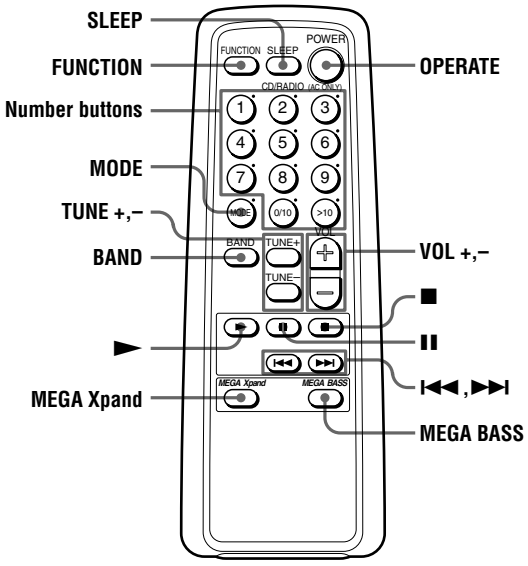
Location of controls



Tip

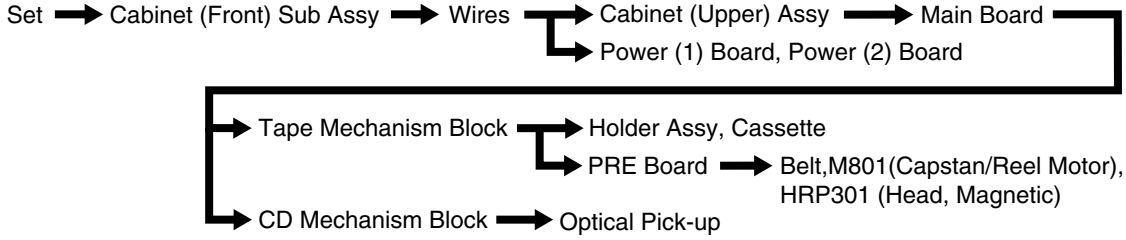
To listen through headphones, connect the headphones to the ∩ (headphones) jack.

Remote Control (CFD-S36L only)



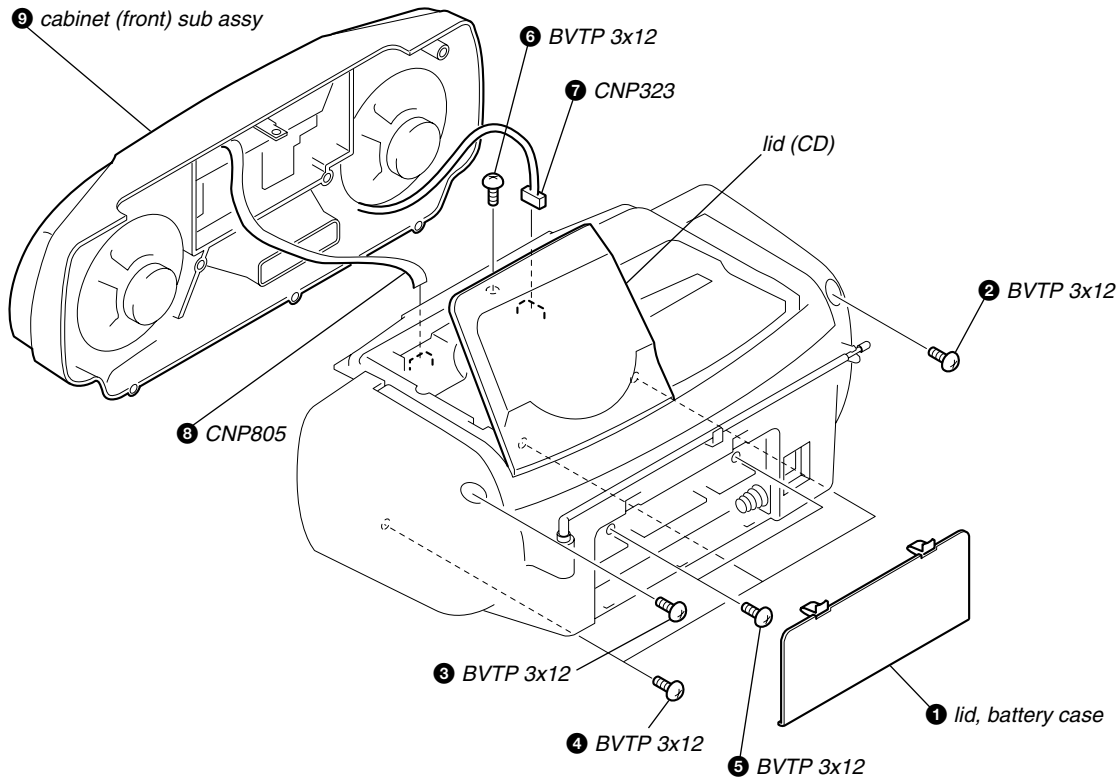
SECTION 3
DISASSEMBLY

• The equipment can be removed using the following procedure.



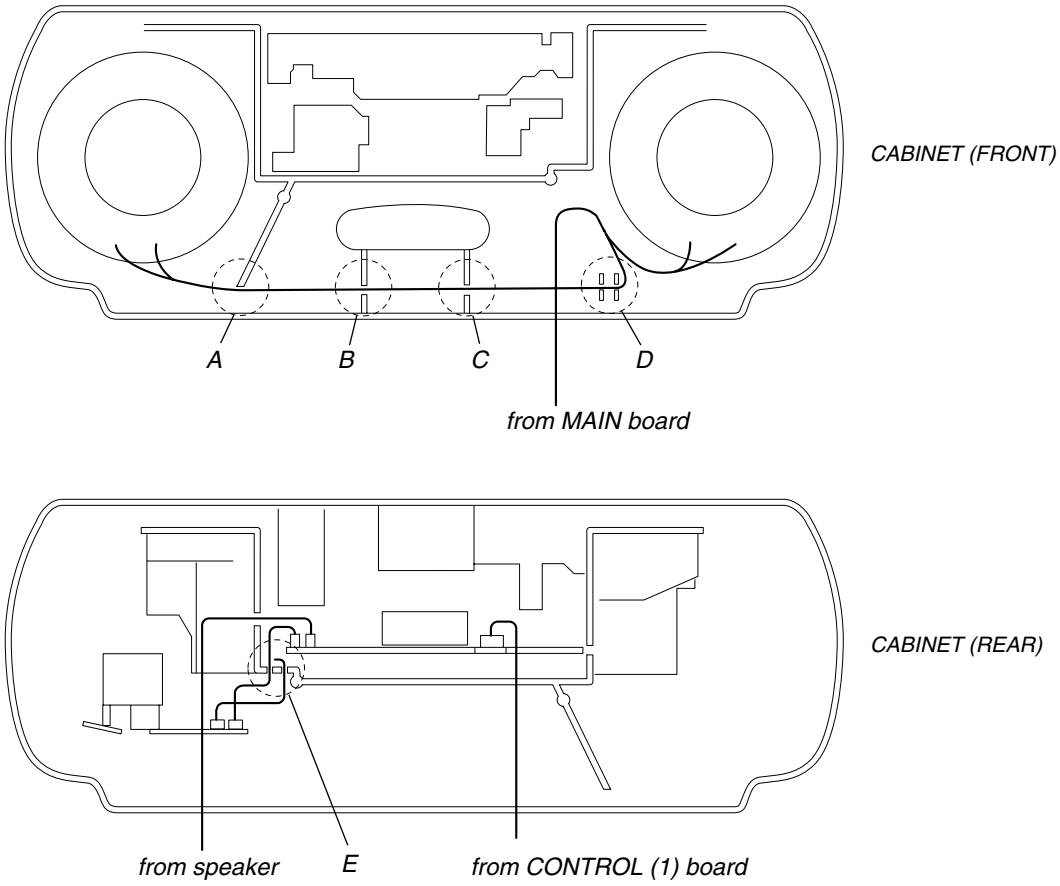
Note : Follow the disassembly procedure in the numerical order given.

3-1. CABINET (FRONT) SUB ASSY

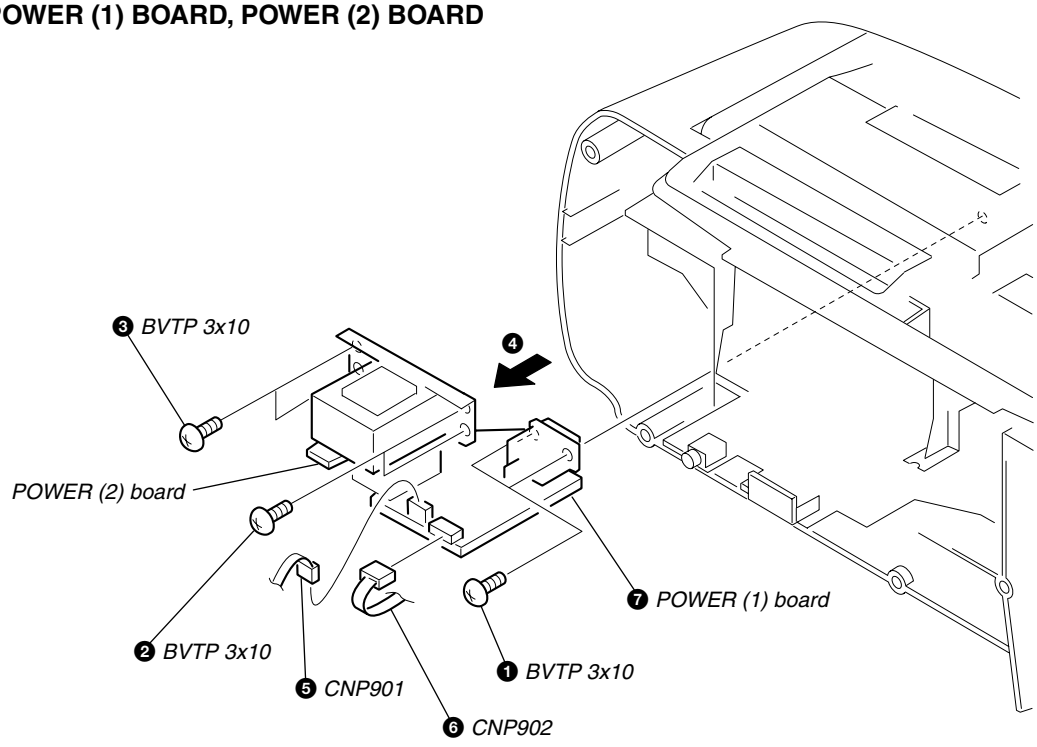


3-2. WIRES

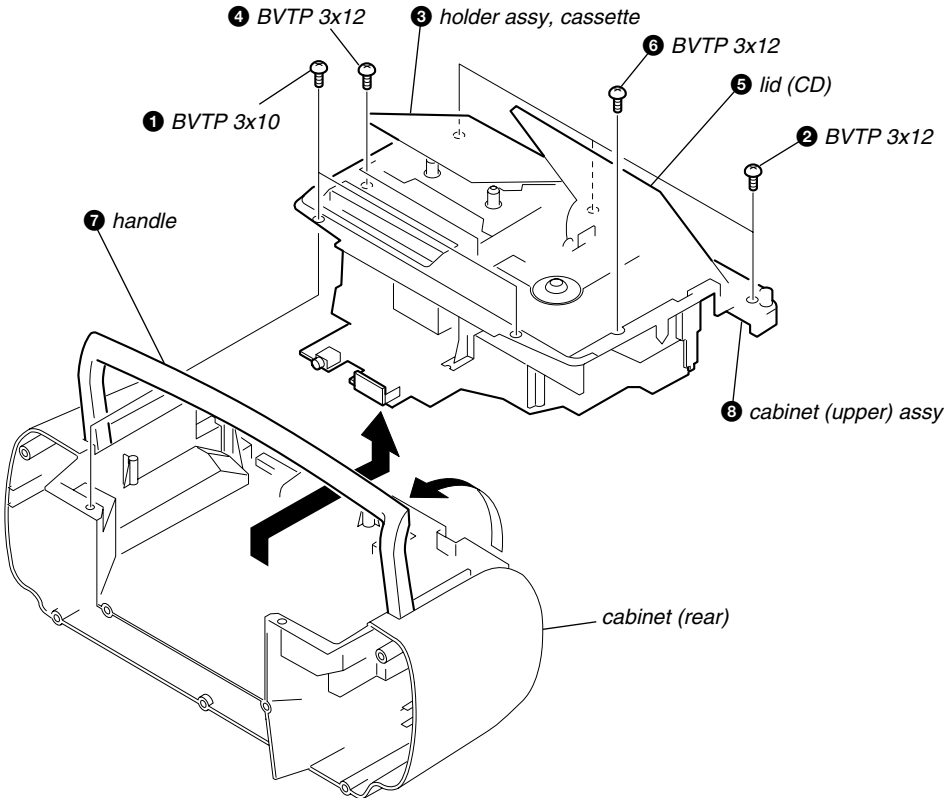
Put flat cable and wires between the cabinets and push them in the grooves located at A to E in the figure to prevent disconnection before assembling the set.



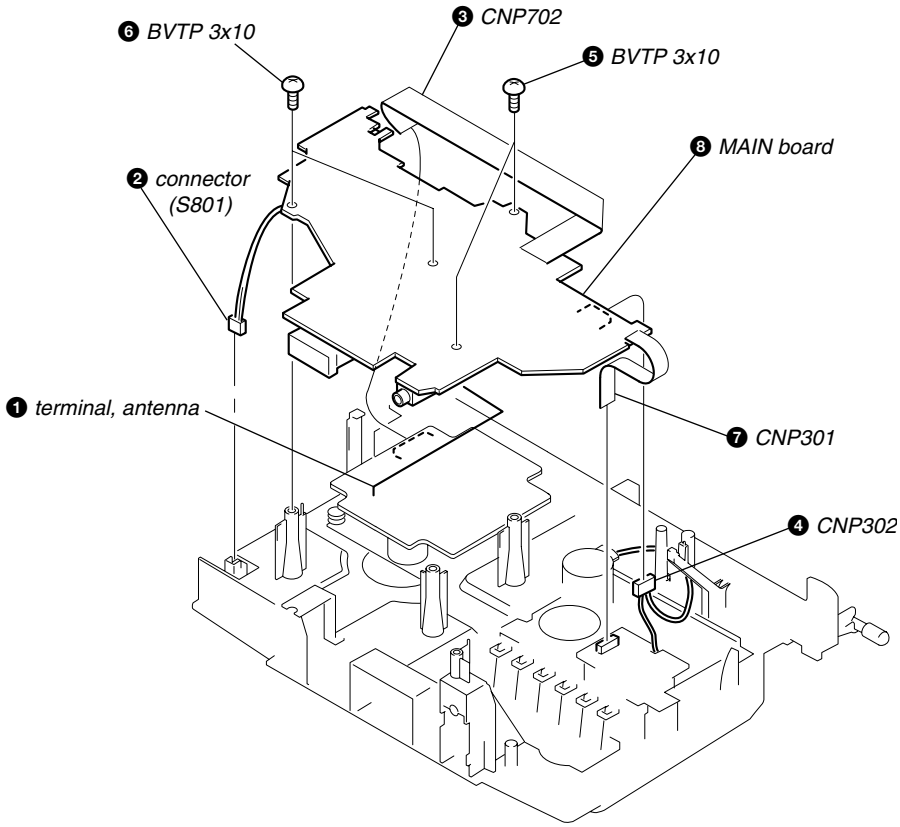
3-3. POWER (1) BOARD, POWER (2) BOARD



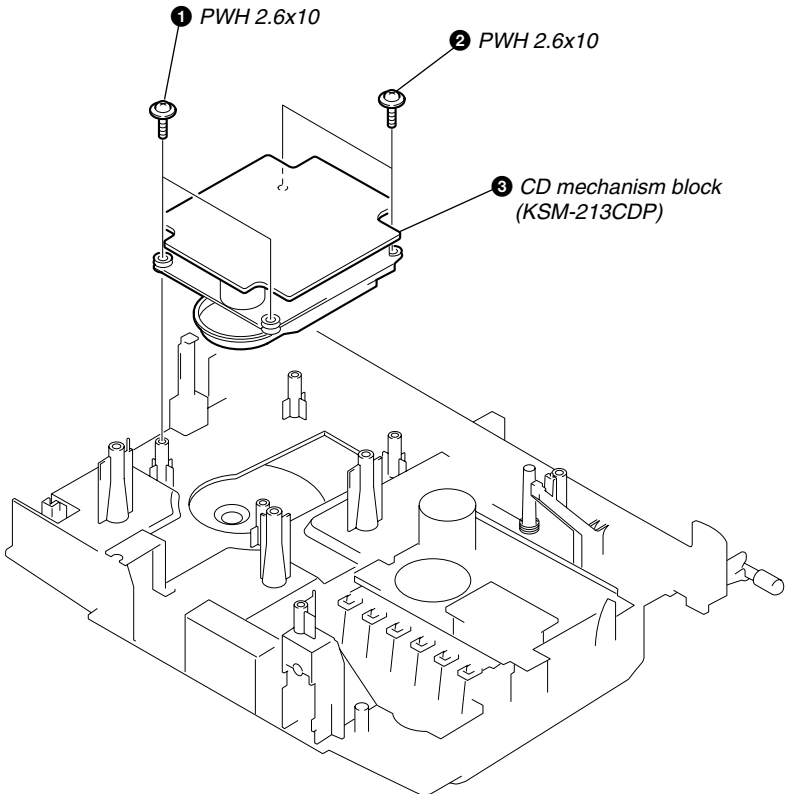
3-4. CABINET (UPPER) ASSY



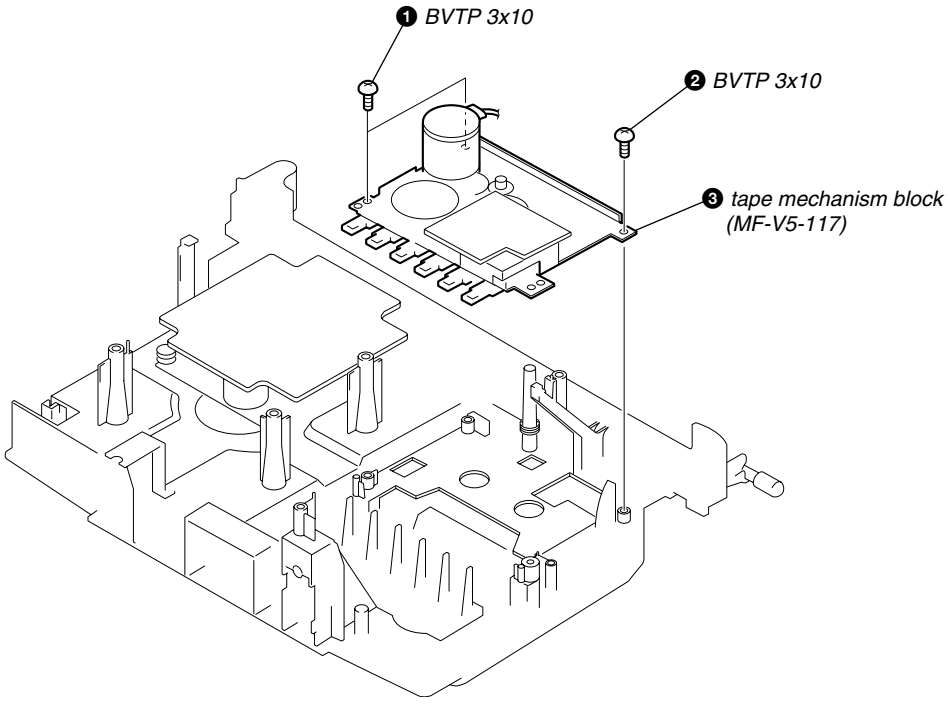
3-5. MAIN BOARD



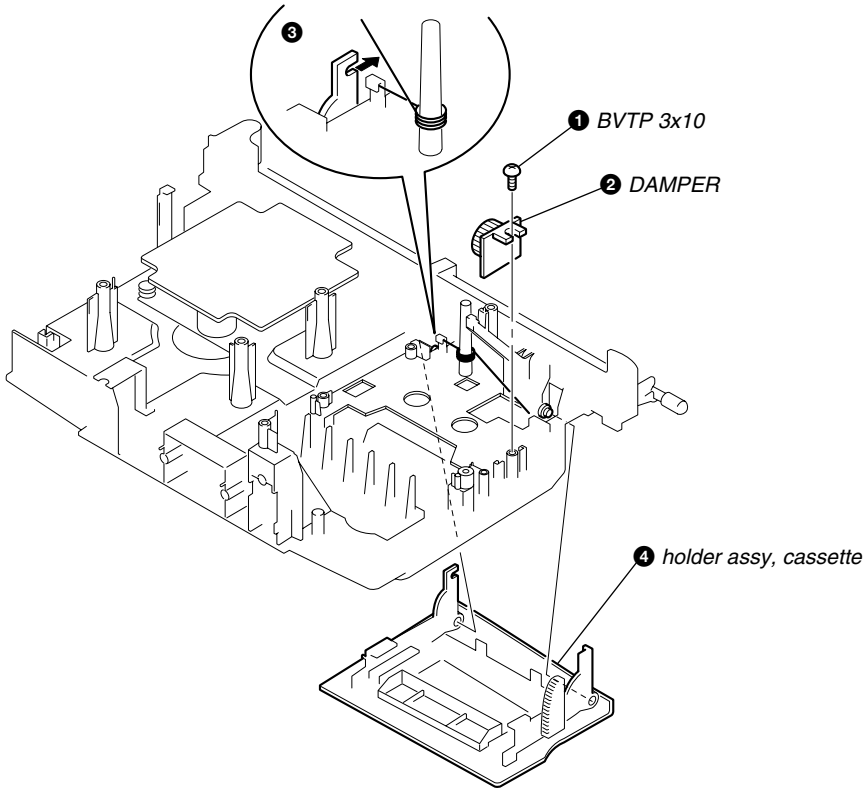
3-6. CD MECHANISM BLOCK



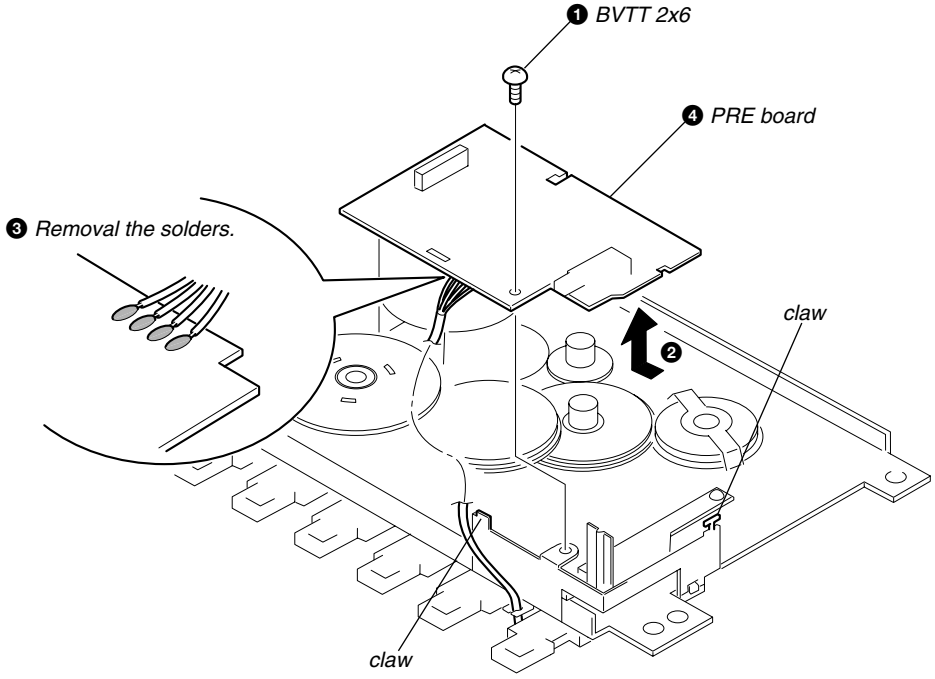
3-7. TAPE MECHANISM BLOCK



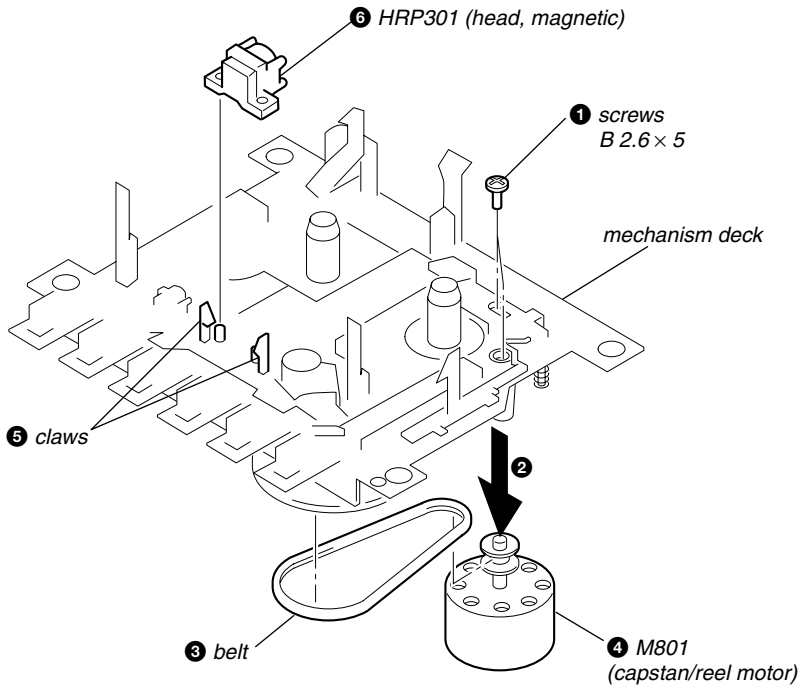
3-8. HOLDER ASSY, CASSETTE



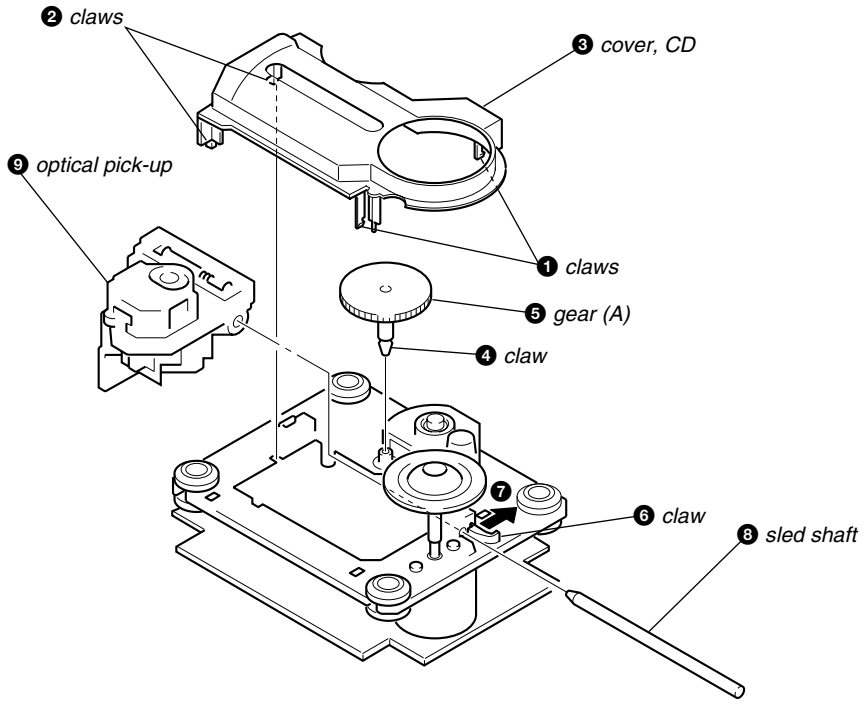
3-9. PRE BOARD



3-10. BELT, M801 (CAPSTAN/REEL MOTOR), HRP301 (HEAD, MAGNETIC)



3-11. OPTICAL PICK-UP



SECTION 4
MECHANICAL ADJUSTMENTS

PRECAUTION

1. Clean the following parts with a denatured-alcohol-moistened swab :
   record/playback head, erase head, capstan, pinch roller, rubber belts, idlers
2. Demagnetize the record/playback head with a head demagnetizer. (Do not bring the head magnetizer close to the erase head.)
3. Do not use a magnetized screwdriver for the adjustments.
4. The adjustments should be performed with the rated power supply voltage (9V) unless otherwise noted.

Torque Measurement

Mode	Torque meter	Meter reading
FWD	CQ-102C	2.95 – 6.86 mN • m (30 – 70 g • cm) (0.42 – 0.97 oz • inch)
FWD Back Tension	CQ-102C	0.15 – 0.53 mN • m (1.5 – 5.5 g • cm) (0.021 – 0.076 oz • inch)
FF	CQ-201B	more than 5.88 mN • m (more than 60 g • cm) (more than 0.83 oz • inch)
REW	CQ-201B	more than 5.88 mN • m (more than 60 g • cm) (more than 0.83 oz • inch)

Tape Tension Measurement

Mode	Tension meter	Meter Reading
FWD	CQ-403A	more than 100 g (more than 3.53 oz)

SECTION 5
ELECTRICAL ADJUSTMENTS

TAPE SECTION **0 dB = 0.775 V**

• Standard Output Level

Output terminal	HP OUT
load impedance	32 Ω
output signal level	0.25 V (–10 dB)

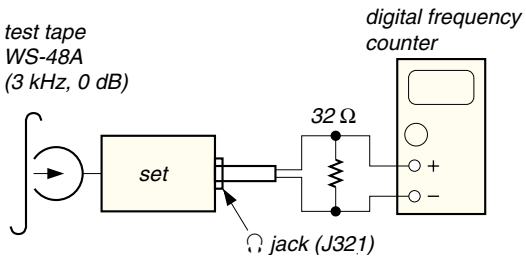
• Test Tape

Type	Signal	Used for
WS-48A	3 kHz, 0 dB	tape speed adjustment

Tape Speed Adjustment

Procedure:

Mode: playback



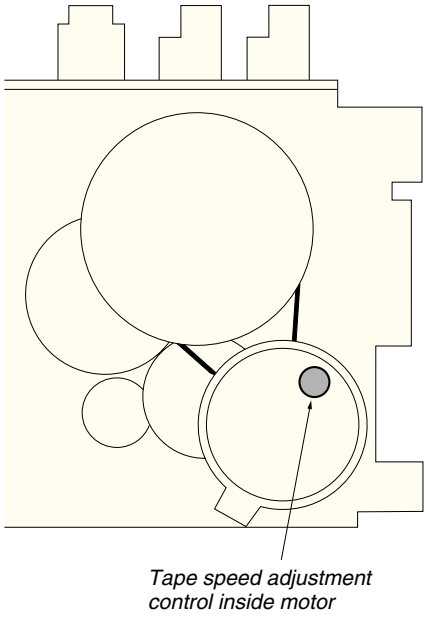
Adjust so that the value on the digital frequency counter is 3,000 Hz.

Specification Value:

Digital frequency counter
2,940 to 3,060 Hz

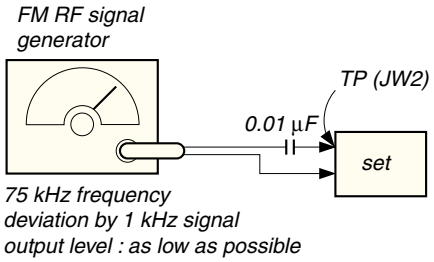
Adjust so that the frequency at the beginning and that at the end of tape winding are between 2,970 to 3,030 Hz.

Adjustment Location:

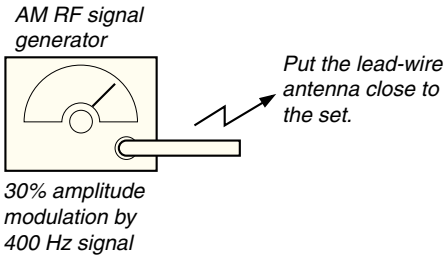


TUNER SECTION | 0 dB = 1 µV

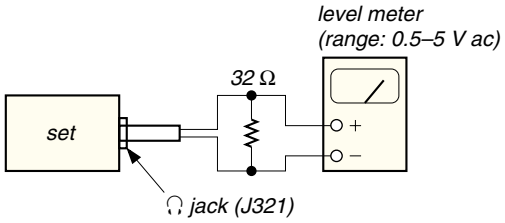
- **FM Section**
  Setting:
  RADIO (BAND) button: FM



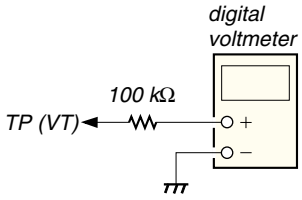
- **AM Section**
  Setting:
  RADIO (BAND) button: MW or LW



- **Connecting Level Meter (FM, MW and LW)**



- **Connecting Digital Voltmeter (FM, MW and LW)**



- Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.

FM IF ADJUSTMENT
Adjust for a maximum reading on level meter.
T2
10.7 MHz

FM FREQUENCY COVERAGE ADJUSTMENT		
Frequency Display	87.5 MHz	108 MHz
Reading on Digital voltmeter	1.3 ± 0.3 V	3.0 ± 0.2 V
Adjustment Part	<confirmation>	L2

FM TRACKING ADJUSTMENT	
Adjust for a maximum reading on level meter.	
L1	CT1
87.5 MHz	108 MHz

MW IF ADJUSTMENT
Adjust for a maximum reading on level meter.
T1
450 kHz

MW FREQUENCY COVERAGE CHECK		
Frequency Display	531 kHz	1,611 kHz
Reading on Digital voltmeter	1.0 ± 0.5 V	5.2 ± 0.6 V
Adjustment Part	<confirmation>	<confirmation>

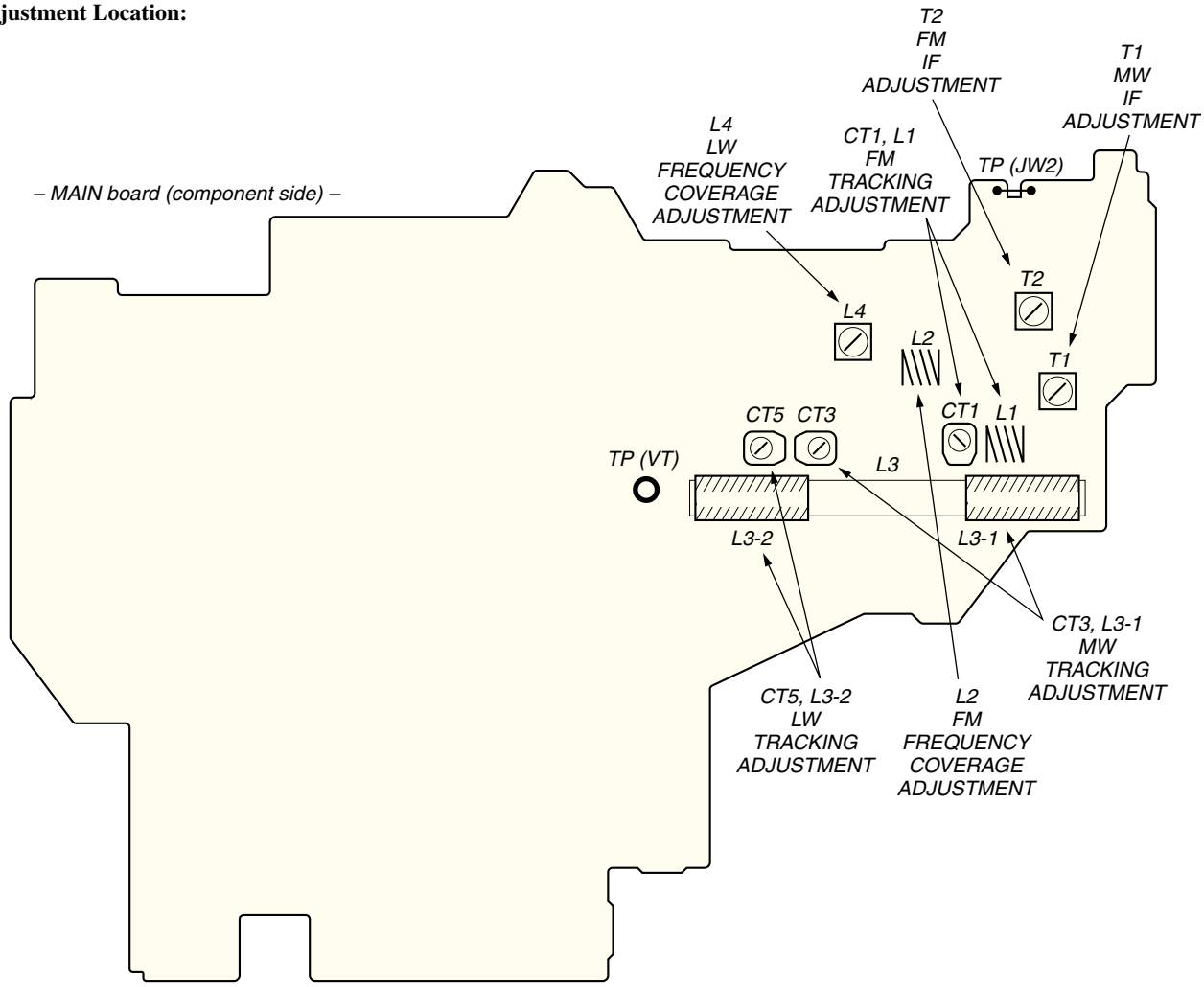
MW TRACKING ADJUSTMENT	
Adjust for a maximum reading on level meter.	
L3-1	CT3
621 kHz	1,404 kHz

LW FREQUENCY COVERAGE ADJUSTMENT		
Frequency Display	153 kHz	279 kHz
Reading on Digital voltmeter	0.6 ± 0.3 V	5.0 ± 0.1 V
Adjustment Part	<confirmation>	L4

LW TRACKING ADJUSTMENT	
Adjust for a maximum reading on level meter.	
L3-2	CT5
162 kHz	261 kHz

Adjustment Location: See page 14.

Adjustment Location:



CD SECTION

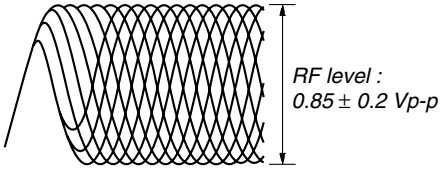
CD section adjustments are done automatically in this set.
In case of operation check, confirm that focus bias.

FOCUS BIAS CHECK

1. Connect the oscilloscope between IC701 pin ④ and pin ⑪ (or TP (RF) and TP (VREF).
2. Insert the disc (YEDS-18). (Part No. : 3-702-101-01)
3. Press the CD ► ❚❚ button.
4. Confirm that the oscilloscope waveform is as shown in the figure below. (eye pattern)
   A good eye pattern means that the diamond shape (◇) in the center of the waveform can be clearly distinguished.

• RF signal reference waveform (eye pattern)

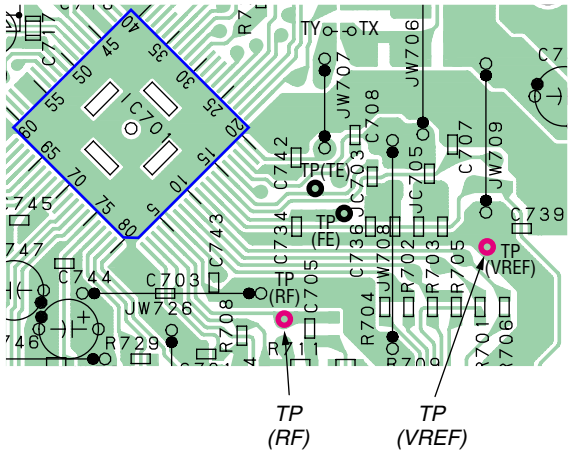
VOLT/DIV : 50 mV (10 : 1 probe in use)
TIME/DIV : 500 nS



When observing the eye pattern, set the oscilloscope for AC range and raise vertical sensitivity.

Test Point:

– CD board (conductor side) –



SECTION 6
DIAGRAMS

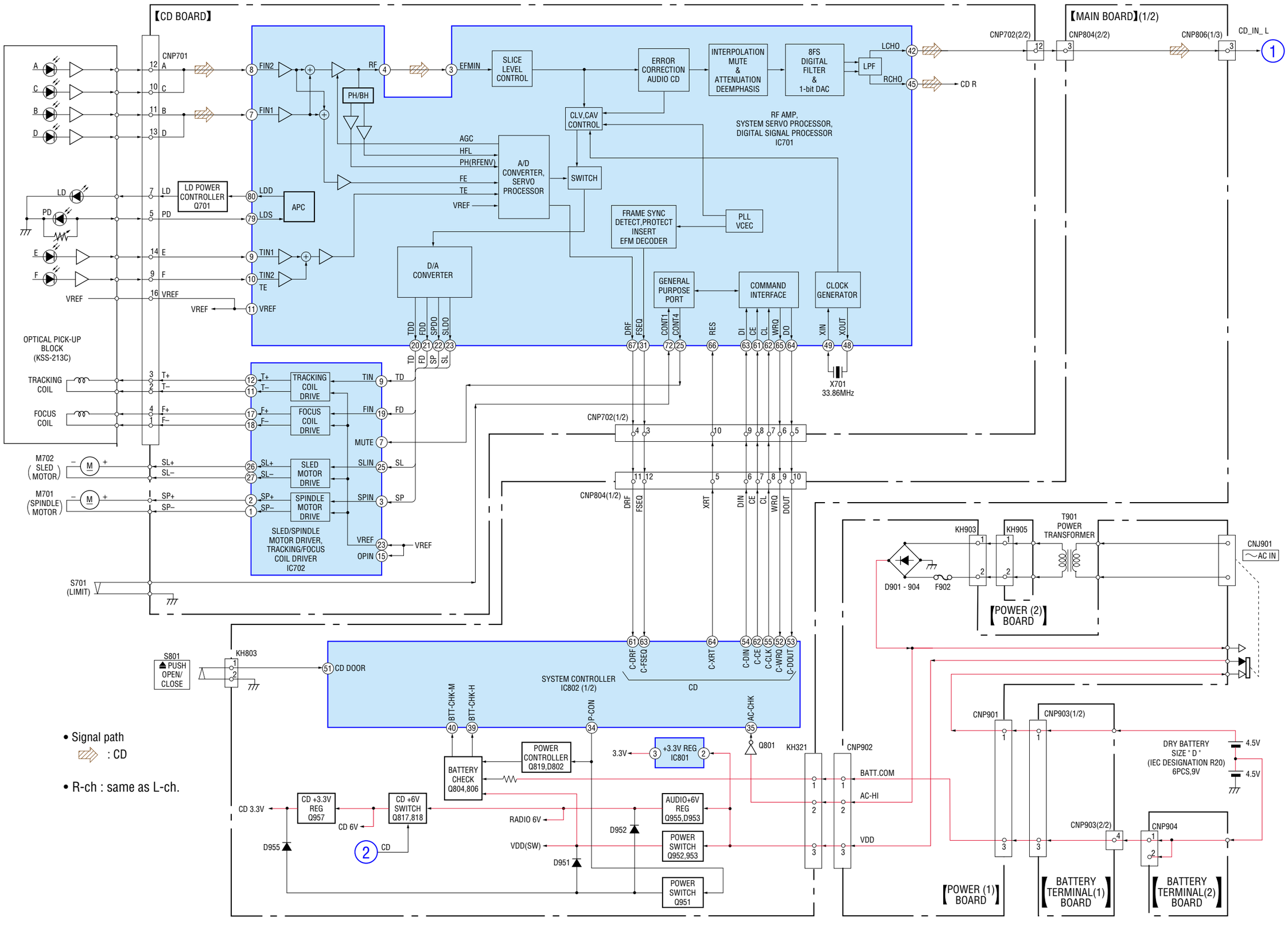
6-1. IC PIN DESCRIPTION

• IC802 uPD789477-907 (SYSTEM CONTROLLER)

Pin No.	Pin Name	I/O	Pin Description
1, 2	NC	—	Not used. (Open)
3 – 5	VLC2 – 0	O	LCD drive voltage output
6 – 9	COM0 – 3	O	LCD drive common output
10 – 26	S0 – 16	O	LCD drive segment output
27 – 29	S17 – 19	O	LCD drive segment output Not used. (Open)
30	BL-CONT	—	Not used. (Open)
31	A-MUTE	O	Audio mute output H: Mute
32	WB/FM.AM.TV	O	Tuner output level attenuator switch Not used. (Open)
33	DBB	O	MEGA BASS control output H: MEGA BASS off, L: MEGA BASS on
34	P-CON	O	System power control output H: PCON
35	AC-CHK	I	AC power supply detection signal input "L": AC in
36	CD	O	CD function output H: CD
37	TAPE	O	Tape function output H: Tape
38	AVDD	—	Analog power supply pin for A/D converter (+3.3 V)
39	BTT-CHK-H	I	Battery check input for Hi-voltage
40	BTT-CHK-M	I	Battery check input for Mid-voltage
41	REC	I	Tape record signal input H: REC
42 – 45	KEY1 – 4	I	Key input
46	MODE CHK	I	Mode set input
47	AGND	—	Analog GND for A/D converter
48	REMOTE	I	Sircs receiver data input
49	TC-PLAY	I	Tape play switch input L: Tape
50	WP/INI	O	Initial set signal output
51	CD-DOOR	I	CD door open/close switch input L: Close
52	C-WRQ	I	CD command data input
53	C-DOUT	I	CD sireal data input
54	C-DIN	O	CD sireal data output
55	C-CLK	I	Serial data transfer clock signal input
56	R-COUNT	I	Tuner PLL data input
57	R-DATA	O	Tuner PLL data output
58	R-CLK	O	Tuner PLL clock output
59	R-LAT	O	Tuner PLL latch output
60	B-MUTE	O	Tuner mute signal output H: Mute
61	C-DRF	I	CD DRF signal input
62	C-CE	O	CD SENSE read clock output
63	C-FSEQ	I	CD frame SYNC input
64	C-XRT	O	CD system reset output
65	V-LAT	O	Volume latch output Not used. (Open)
66	V-DATA	O	Volume data output
67	V-CLK	O	Volume clock output
68	SUR	O	Surround switch signal output
69	ICO	—	Connected to GND
70	XT1	I	Sub system oscillation input (32.768 kHz)
71	XT2	O	Sub system oscillation output (32.768 kHz)
72	VDD	—	Main power supply pin for A/D converter (+3.3 V)
73	VSS	—	Main GND
74	X1	I	Main system oscillation input (4.19 MHz)
75	X2	O	Main system oscillation output (4.19 MHz)
76	RST	I	System reset input
77	ISS1	O	ISS1 output
78	ISS2	O	ISS2 output
79	SCL	O	EEPROM clock output
80	SDA	I/O	EEPROM input/output

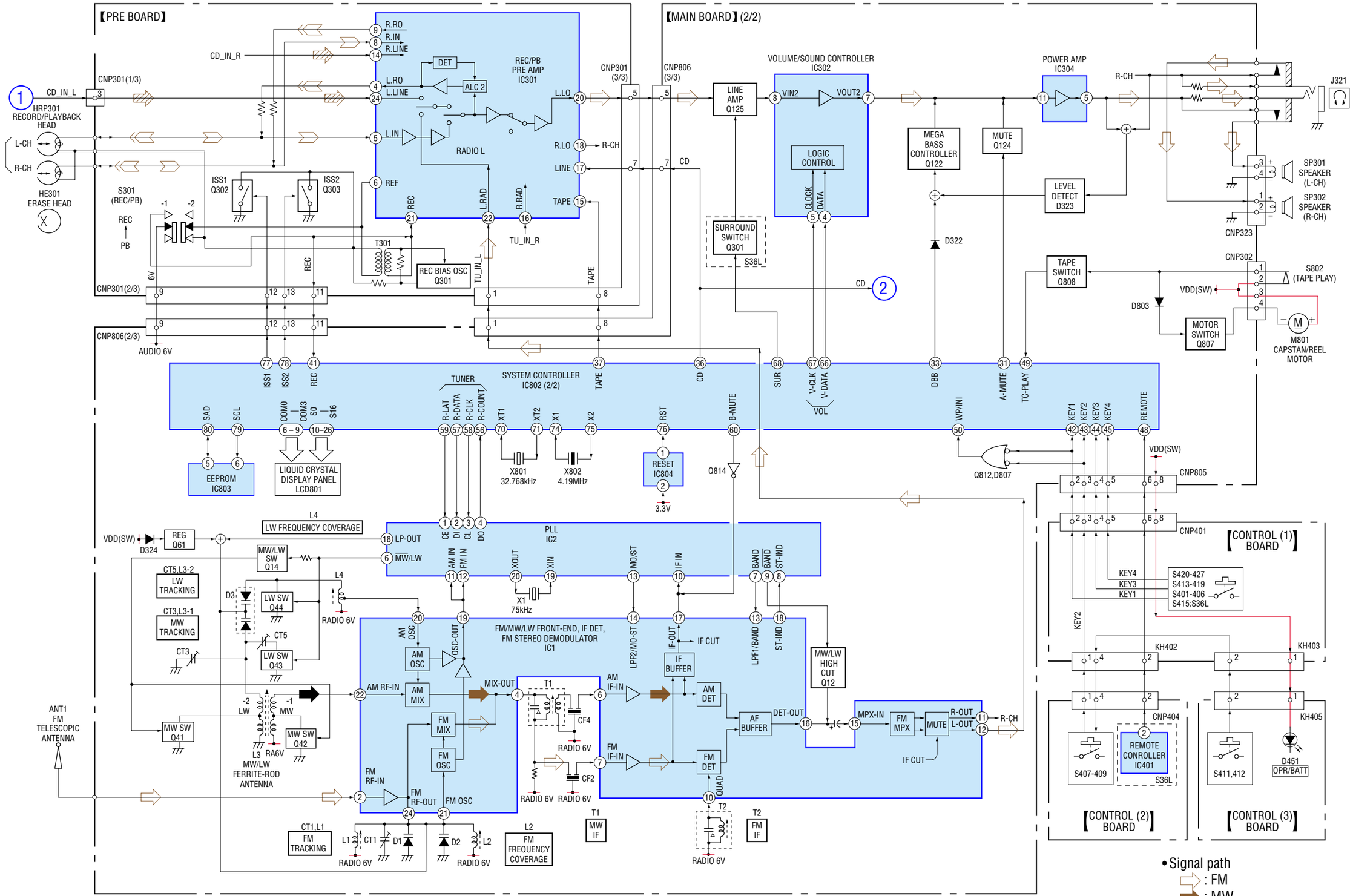
6-2. CIRCUIT BOARDS LOCATION

6-3. BLOCK DIAGRAM — CD SECTION —



- Signal path
  ⇒ : CD
- R-ch : same as L-ch.

6-4. BLOCK DIAGRAM — MAIN SECTION —



- Signal path
  - : FM
  - : MW
  - : TAPE PLAY
  - : TAPE REC
  - : CD
- R-ch : same as L-ch.

THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS.
(In addition to this, the necessary note is printed in each block.)

Common Note on Schematic Diagrams:

- All capacitors are in µF unless otherwise noted. pF: µµF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- △ : internal component.
- ▭ : panel designation.

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

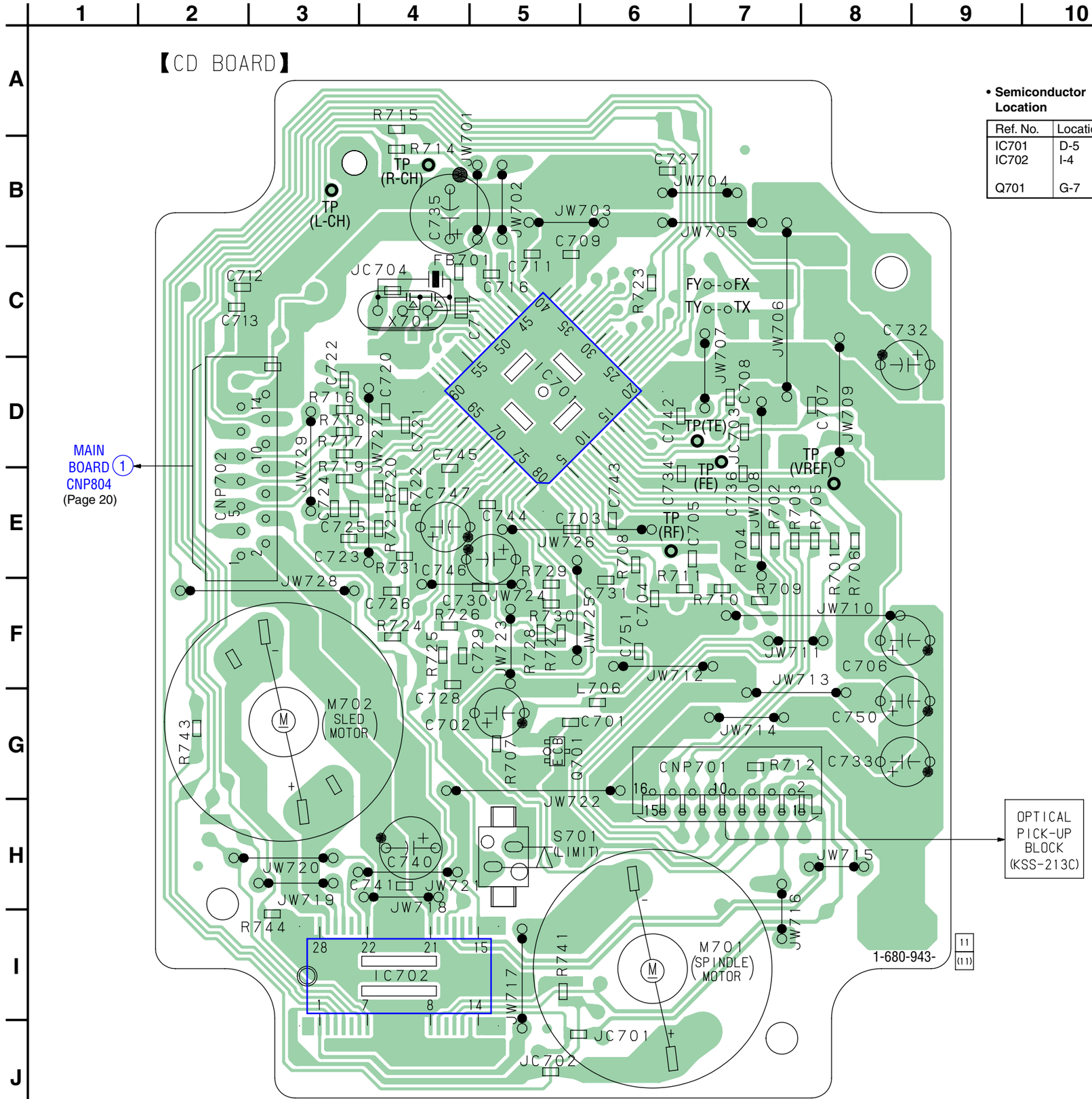
- ▬ : B+ Line.
- ▭ : adjustment for repair.
- Total current is measured with no cassette installed.
- Power voltage is dc 9V and fed with regulated dc power supply from battery terminal.
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  - ⇨ : FM
  - ➡ : MW
  - ⇨ : PB
  - ⇨ : REC
  - ⇨ : CD

Common Note on Printed Wiring Boards:

- ○——○ : parts extracted from the component side.
- —— : parts extracted from the conductor side.
- △ : internal component.
- ▬ : Pattern from the side which enables seeing.

6-5. PRINTED WIRING BOARD — CD SECTION — • Refer to page 15 for Circuit Boards Location.

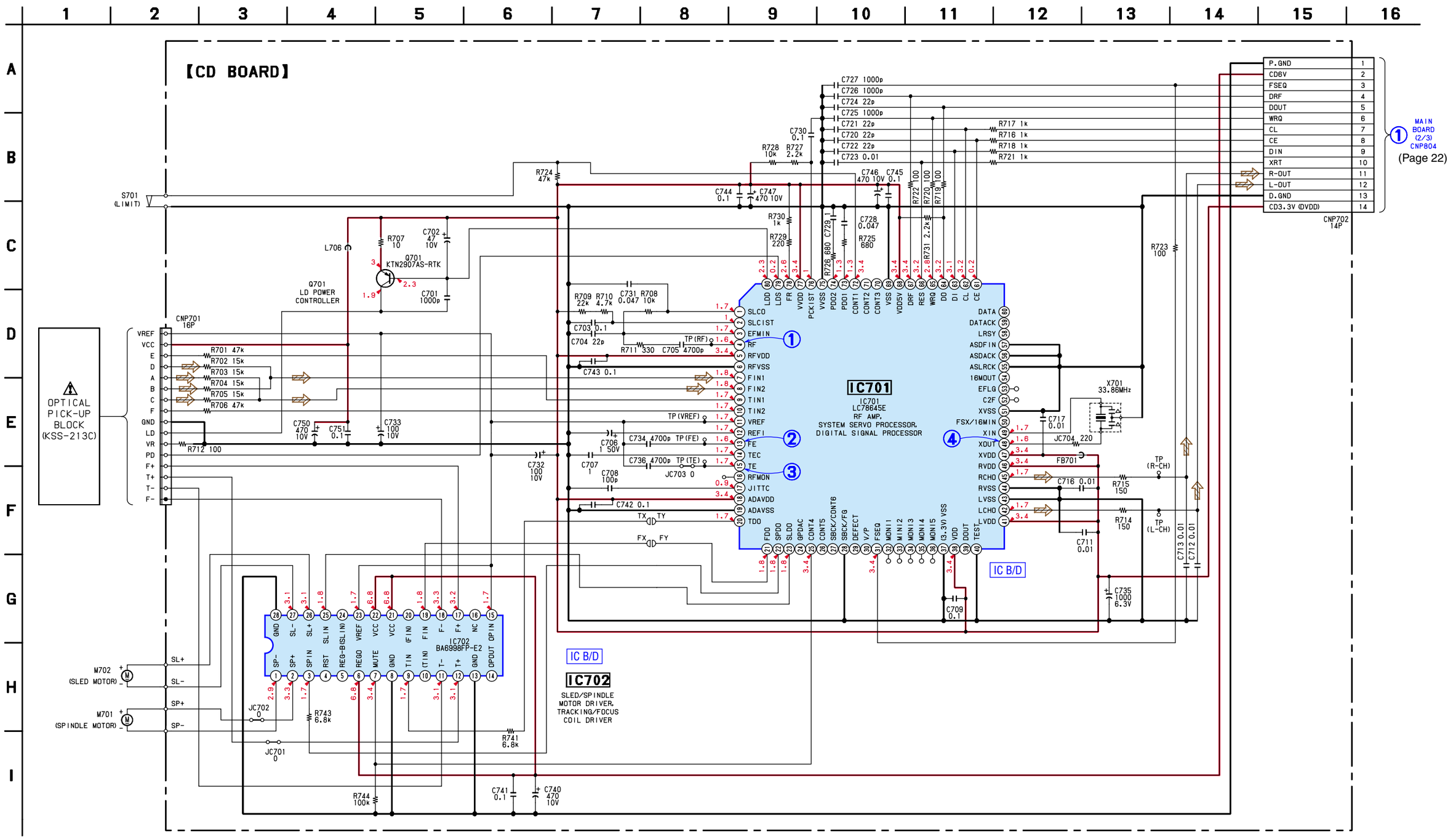
【CD BOARD】



- **Semiconductor Location**

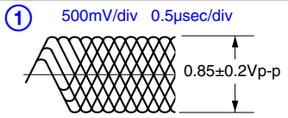
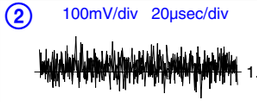
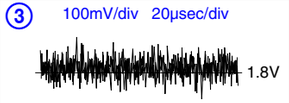
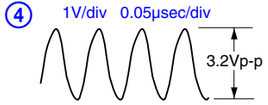
Ref. No.	Location
IC701	D-5
IC702	I-4
Q701	G-7

6-6. SCHEMATIC DIAGRAM — CD SECTION — • Refer to page 18 for Common Note on Schematic Diagrams and page 29 for IC Block Diagrams.



- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : CD PLAY

• Waveforms (Mode: PLAY)

①	②	③	④
500mV/div 0.5µsec/div	100mV/div 20µsec/div	100mV/div 20µsec/div	1V/div 0.05µsec/div
			
IC701 ④ (RF)	Approx. 100mVp-p IC701 ⑬ (FE)	Approx. 100mVp-p IC701 ⑮ (TE)	33.86MHz IC701 ㊽ (XOUT)

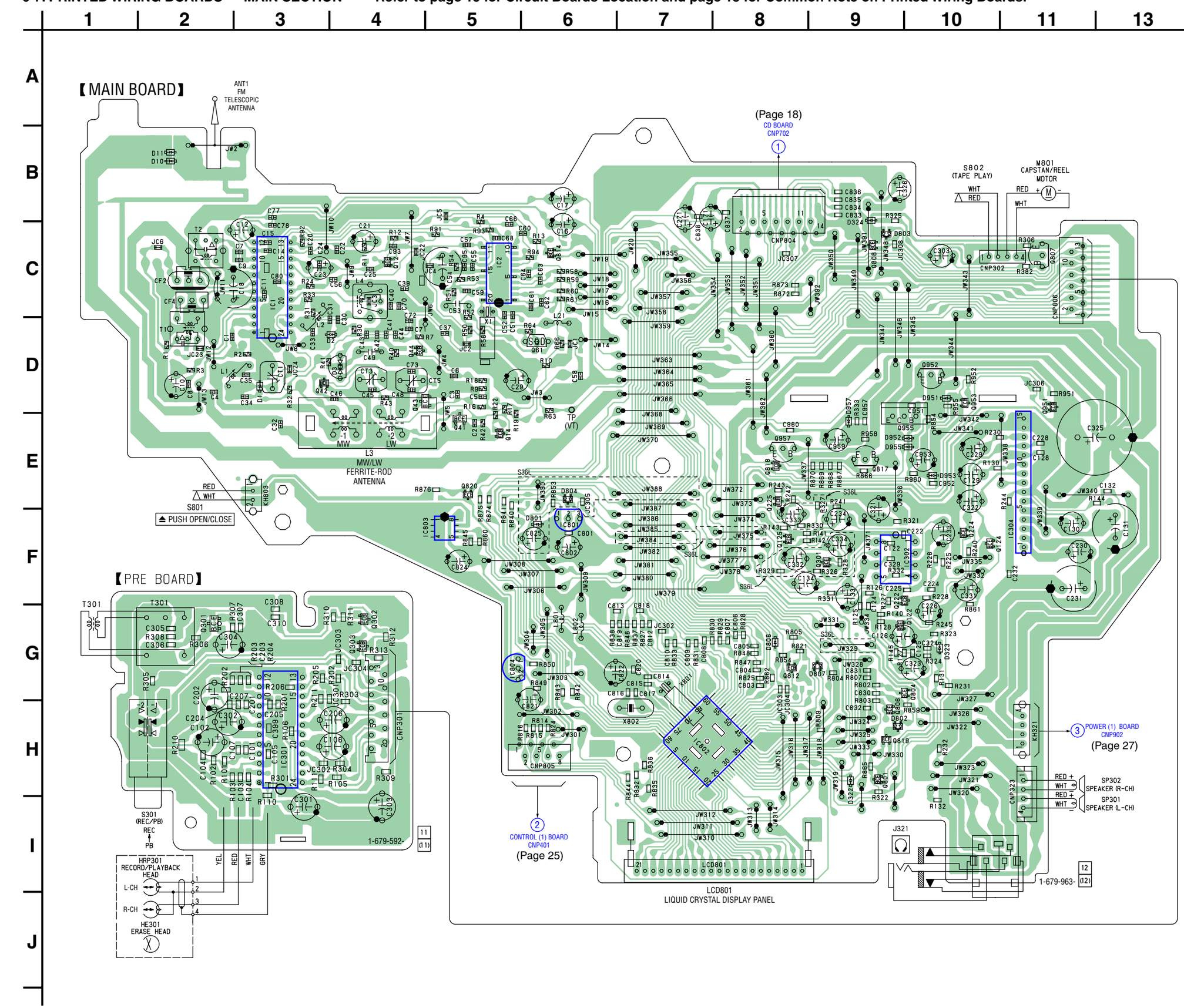
19

6-7. PRINTED WIRING BOARDS — MAIN SECTION — • Refer to page 15 for Circuit Boards Location and page 18 for Common Note on Printed Wiring Boards.

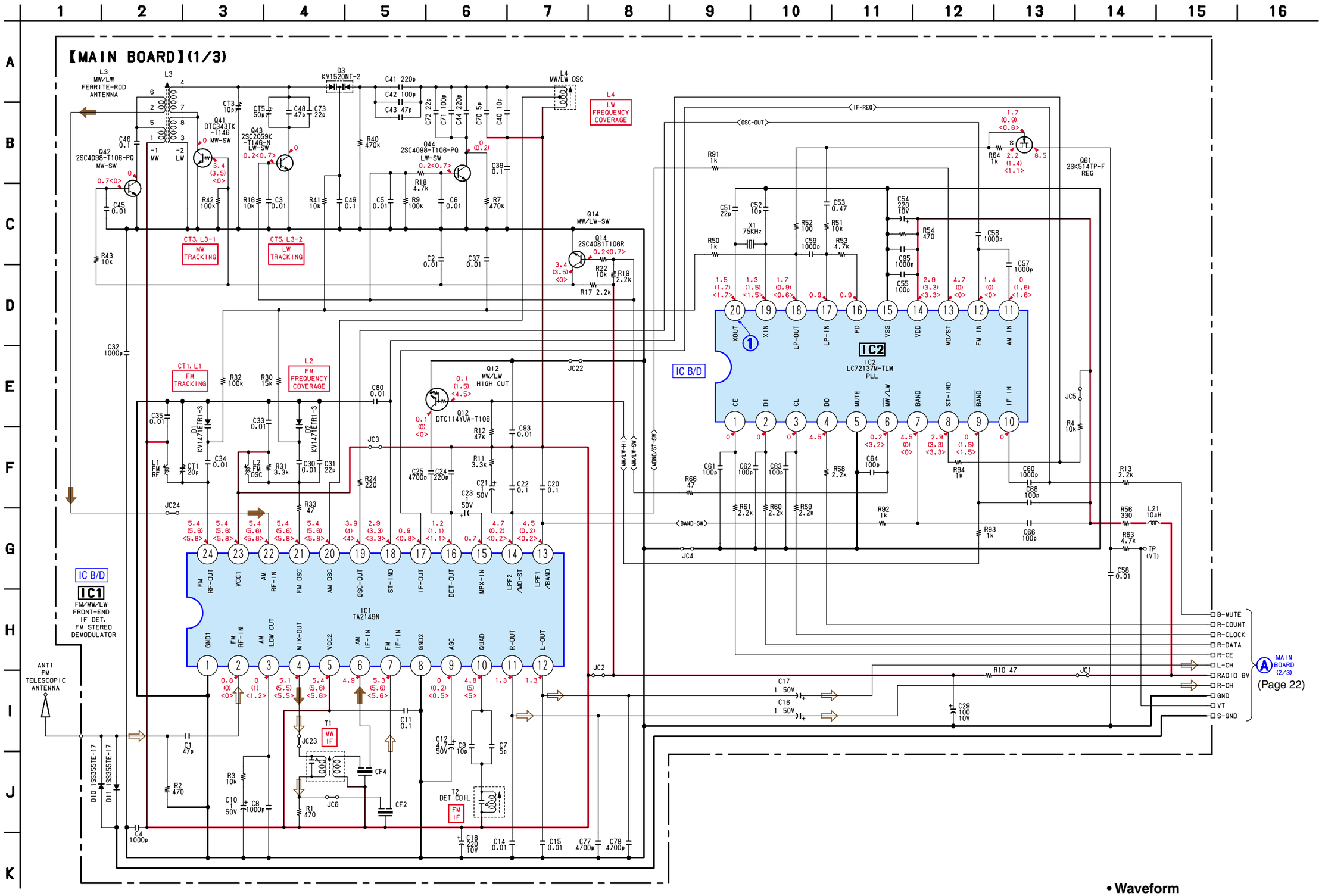
• **Semiconductor Location**

Ref. No.	Location
D1	D-3
D2	D-4
D3	D-4
D10	B-2
D11	B-2
D322	H-9
D323	G-10
D324	C-9
<D801>	F-6
D802	H-9
D803	C-9
<D804>	E-6
D806	G-8
D807	G-9
D951	D-10
D952	E-9
D953	E-10
D955	E-9
D957	E-9
IC1	C-3
IC2	C-5
(IC301)	H-3
IC302	F-9
IC304	F-11
IC801	F-6
IC802	H-7
IC803	F-5
IC804	G-5
Q12	C-4
Q14	E-5
Q41	E-5
Q42	D-3
Q43	D-4
Q44	D-4
Q61	D-6
Q122	G-9
Q124	F-10
Q125	F-8
Q222	F-9
Q224	F-10
Q225	E-8
<Q301>	F-9
(Q301)	G-2
(Q302)	G-4
(Q303)	G-4
Q801	H-9
Q804	G-9
Q806	H-9
Q807	C-11
Q808	C-9
Q812	G-8
Q814	C-6
Q817	E-9
Q818	E-8
Q819	H-9
Q820	E-5
Q951	D-11
Q952	D-10
Q953	D-10
Q955	E-9
Q957	E-8

< > : CFD-S36L only
( ) : PRE BOARD

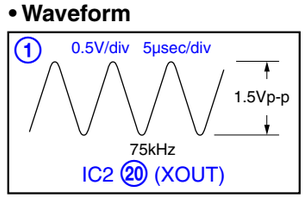


6-8. SCHEMATIC DIAGRAM — MAIN SECTION (1/4) — • Refer to page 18 for Common Note on Schematic Diagrams and page 30 for IC Block Diagrams.

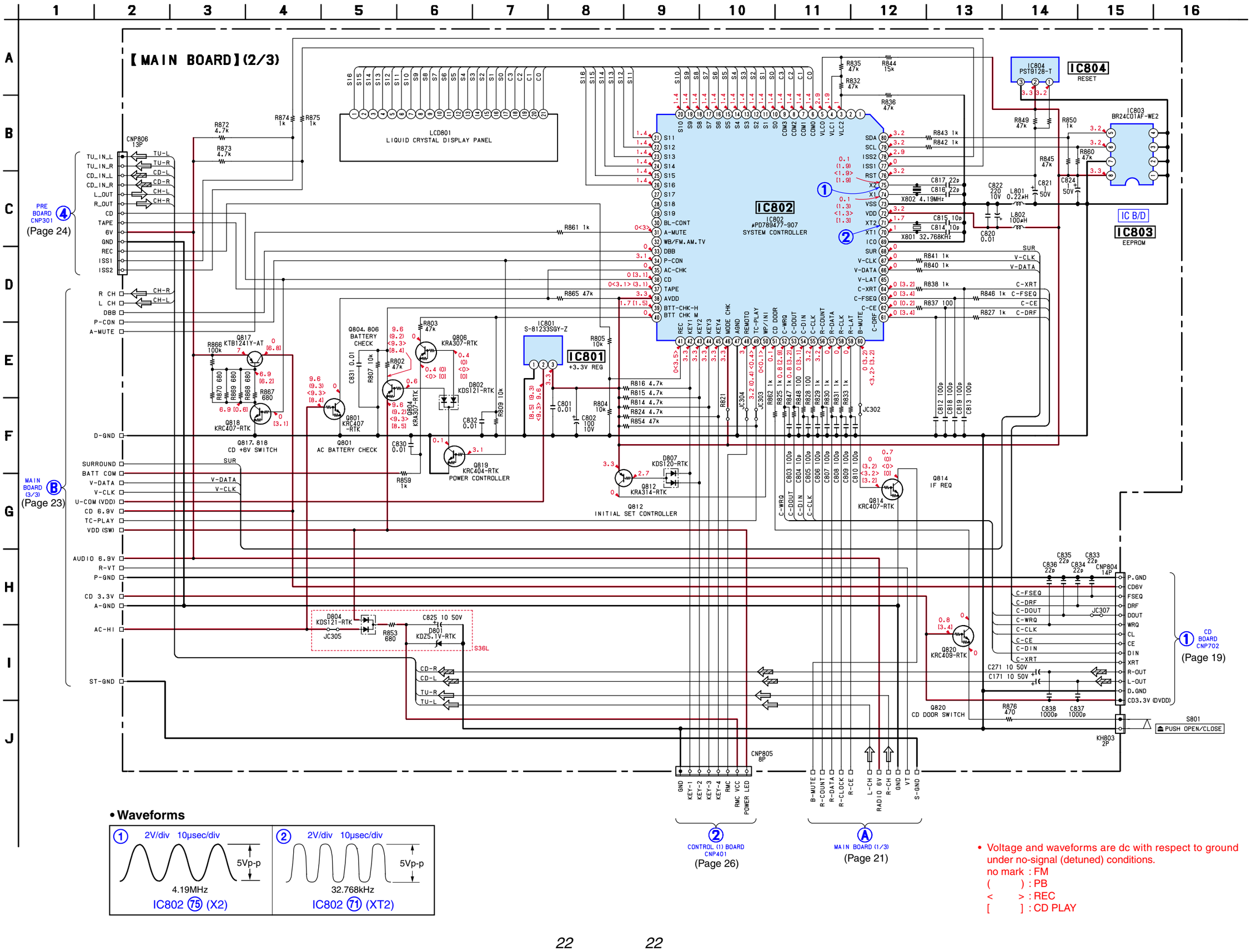


- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : FM
  ( ) : MW
  < > : LW

• Waveform

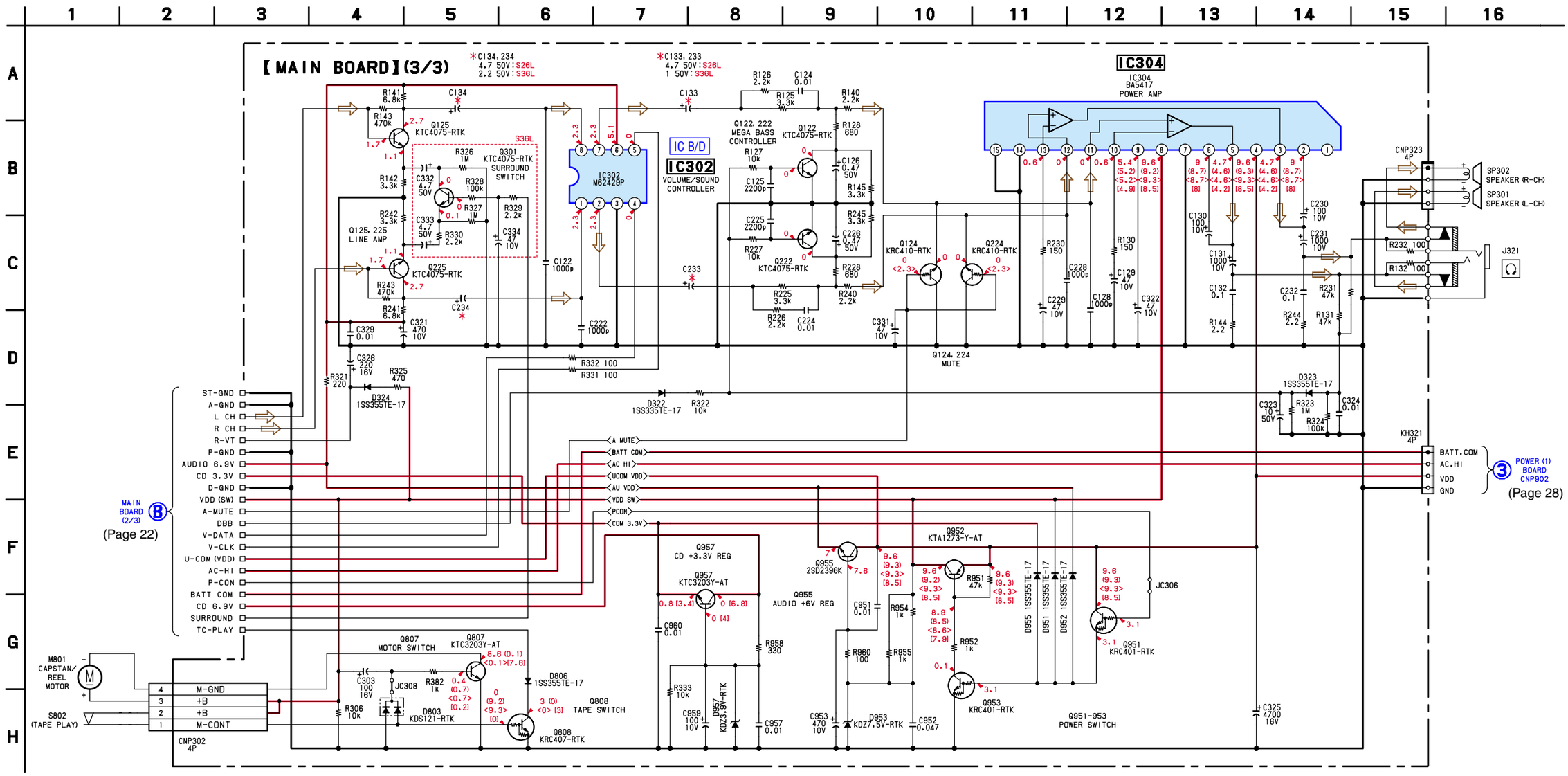


6-9. SCHEMATIC DIAGRAM — MAIN SECTION (2/4) — • Refer to page 18 for Common Note on Schematic Diagrams and page 31 for IC Block Diagrams.



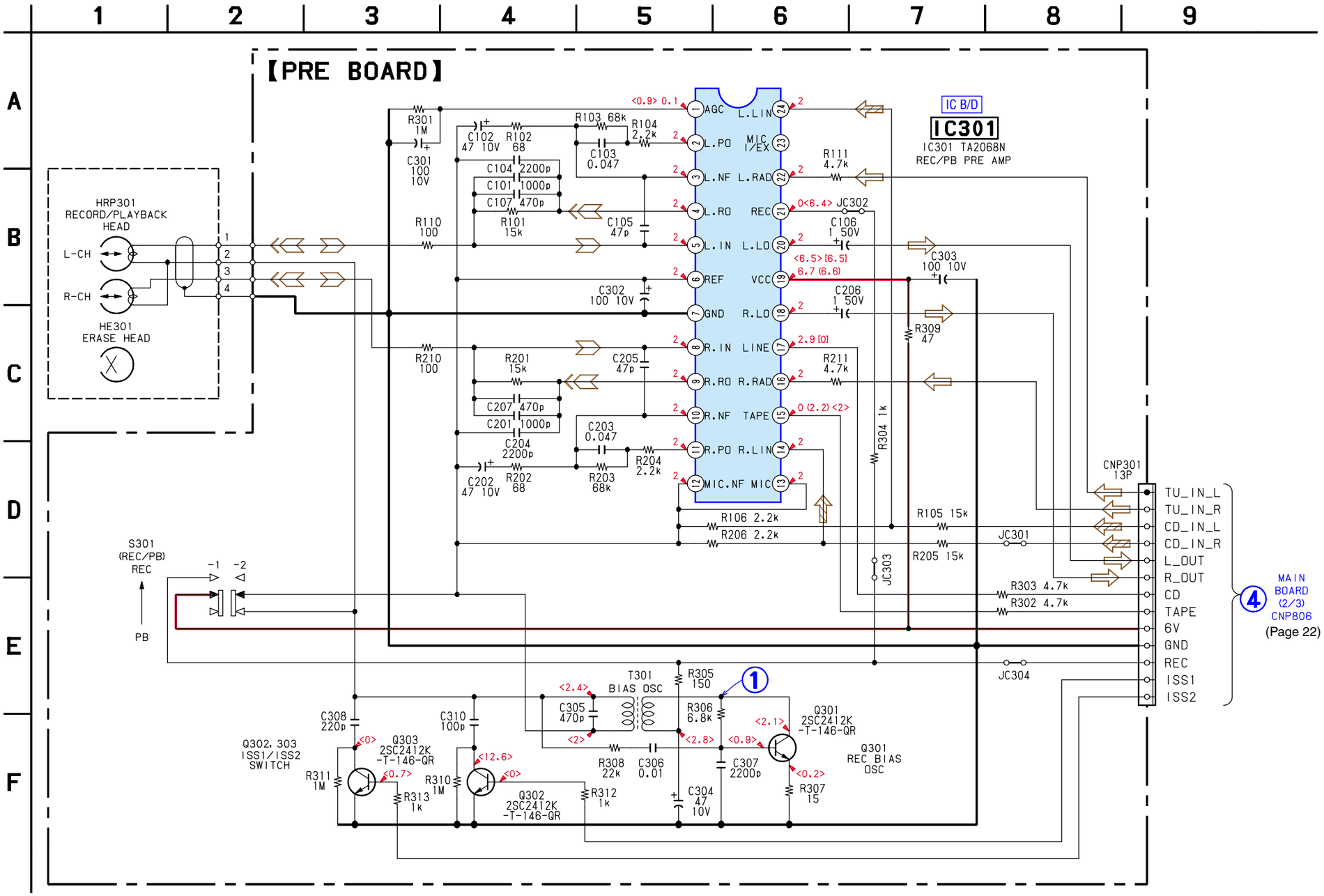
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : FM
  ( ) : PB
  < > : REC
  [ ] : CD PLAY

6-10. SCHEMATIC DIAGRAM — MAIN SECTION (3/4) — • Refer to page 18 for Common Note on Schematic Diagrams and page 31 for IC Block Diagrams.

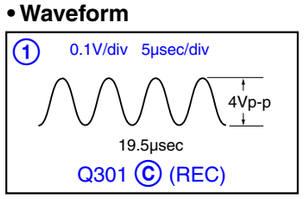


- Voltage is dc with respect to ground under no-signal (detuned) condition.
  no mark : FM
  ( ) : PB
  < > : REC
  [ ] : CD PLAY

6-11. SCHEMATIC DIAGRAM — MAIN SECTION (4/4) — • Refer to page 18 for Common Note on Schematic Diagrams and page 31 for IC Block Diagrams.

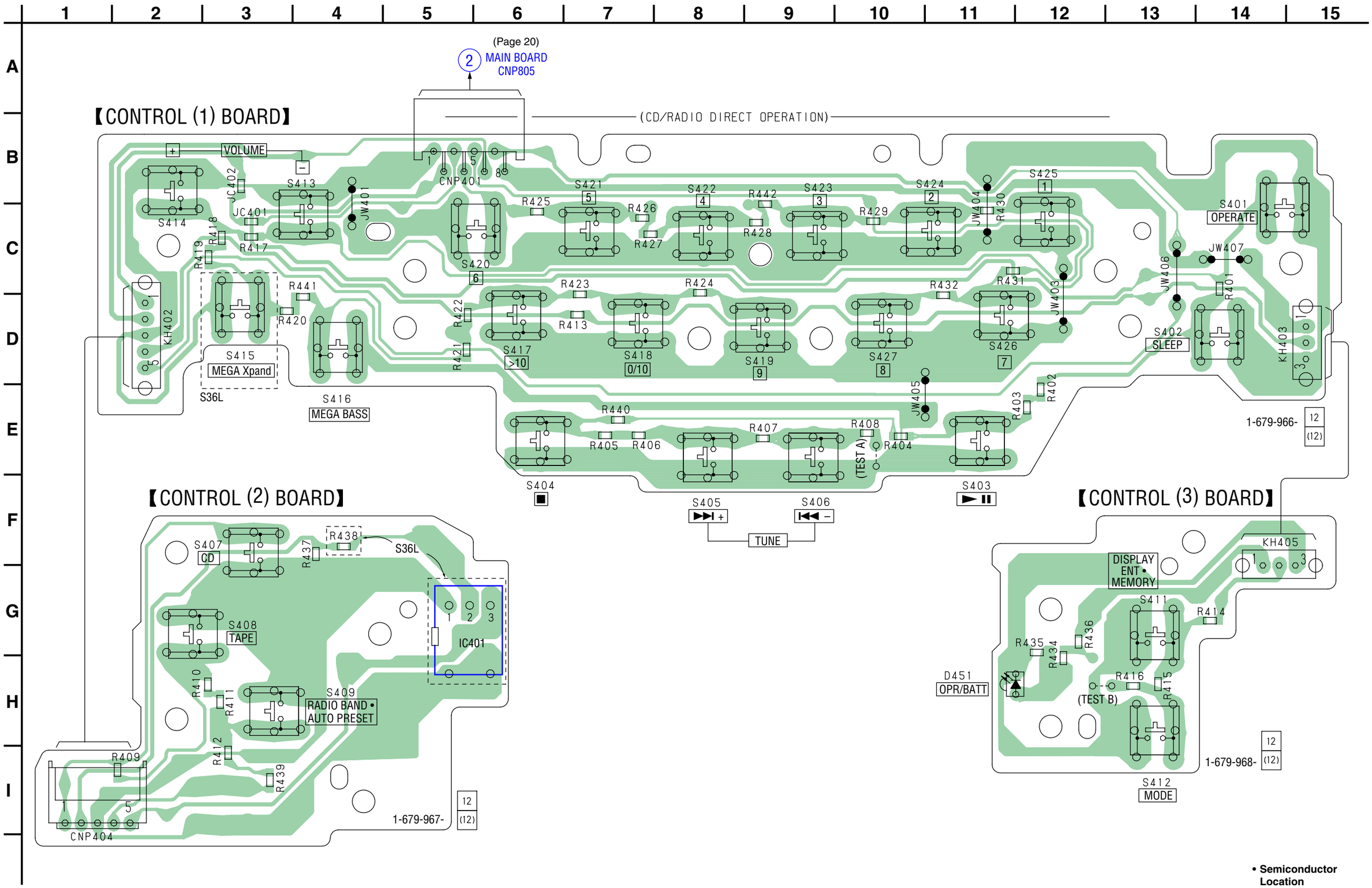


• **Waveform**



• Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
no mark : FM
( ) : PB
< > : REC
[ ] : CD PLAY

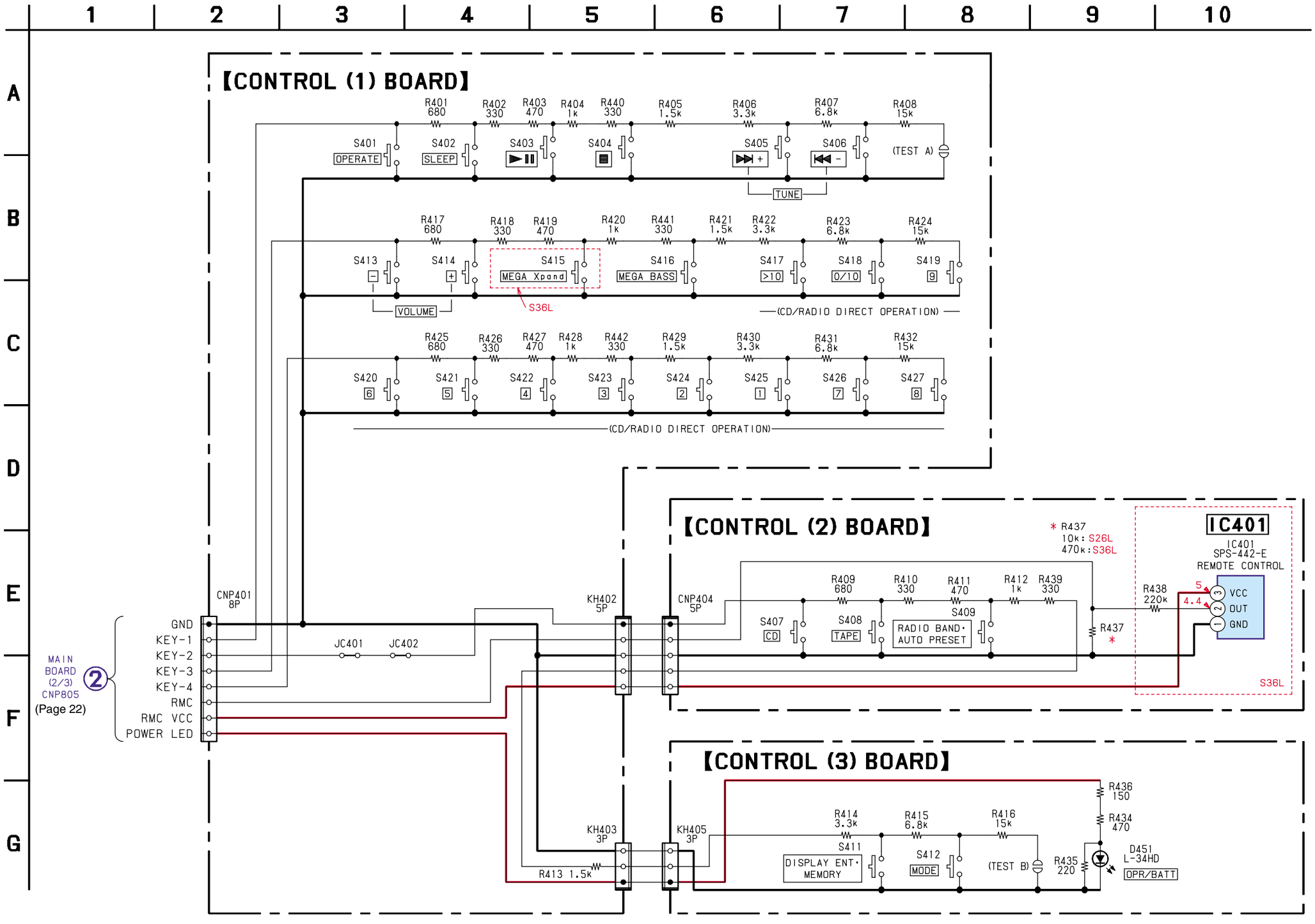
6-12. PRINTED WIRING BOARDS — CONTROL SECTION — • Refer to page 15 for Circuit Boards Location and page 18 for Common Note on Printed Wiring Boards.



• **Semiconductor Location**

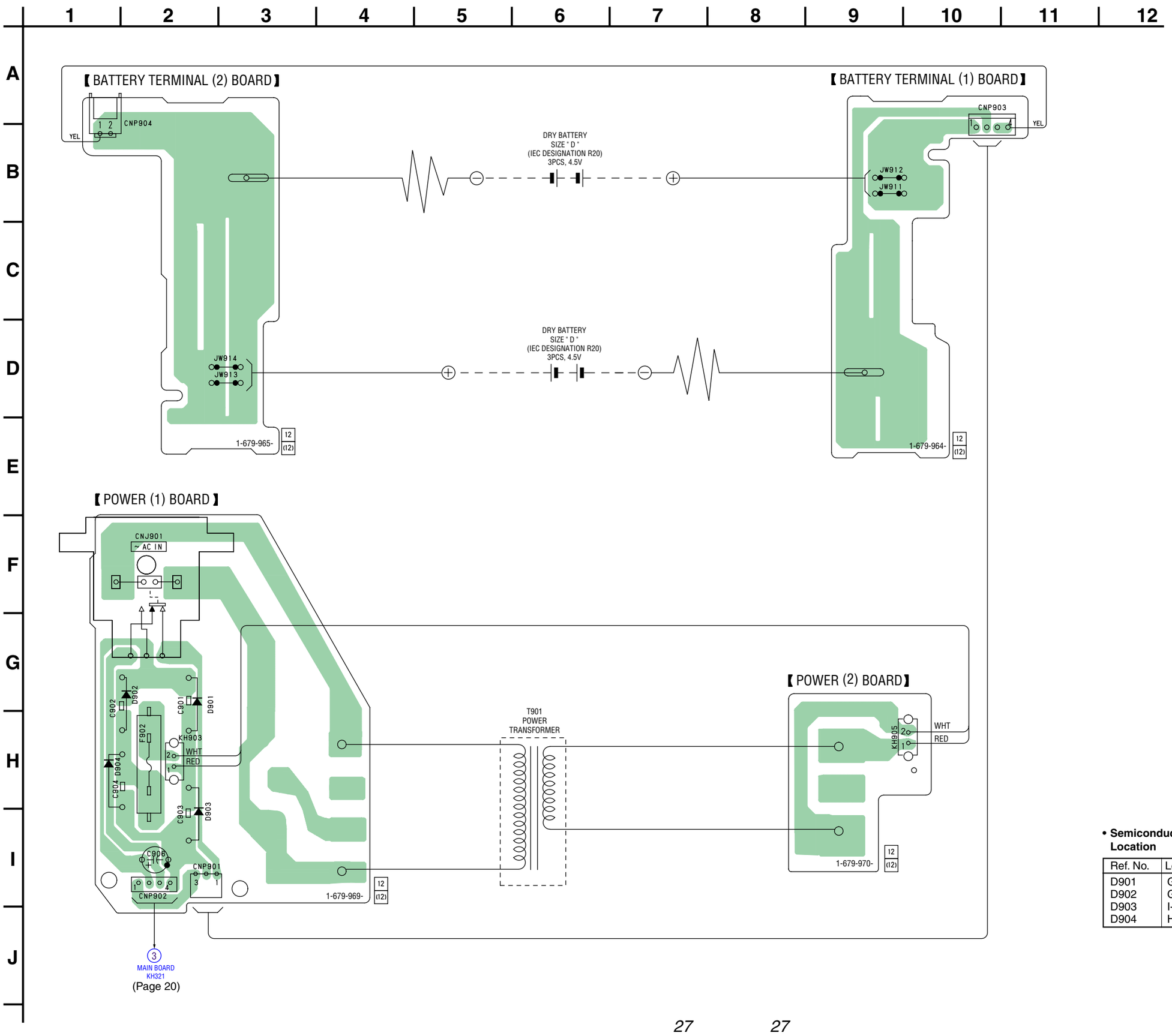
Ref. No.	Location
D451	H-11
IC401	G-5

6-13. SCHEMATIC DIAGRAMS — CONTROL SECTION — • Refer to page 18 for Common Note on Schematic Diagrams.



• Voltage is dc with respect to ground under no-signal (detuned) condition.
no mark : FM

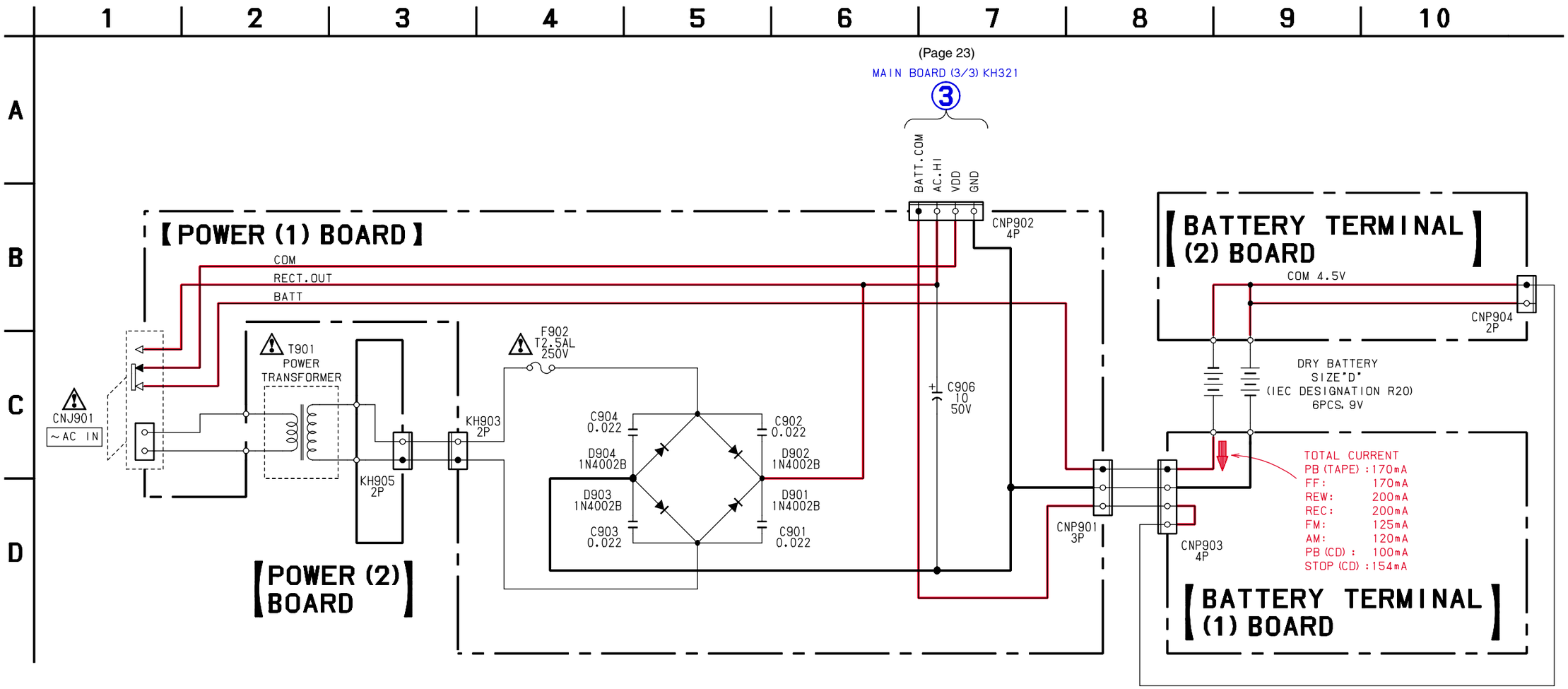
6-14. PRINTED WIRING BOARDS — POWER SUPPLY SECTION — • Refer to page 15 for Circuit Boards Location and page 18 for Common Note on Printed Wiring Boards.



- **Semiconductor Location**

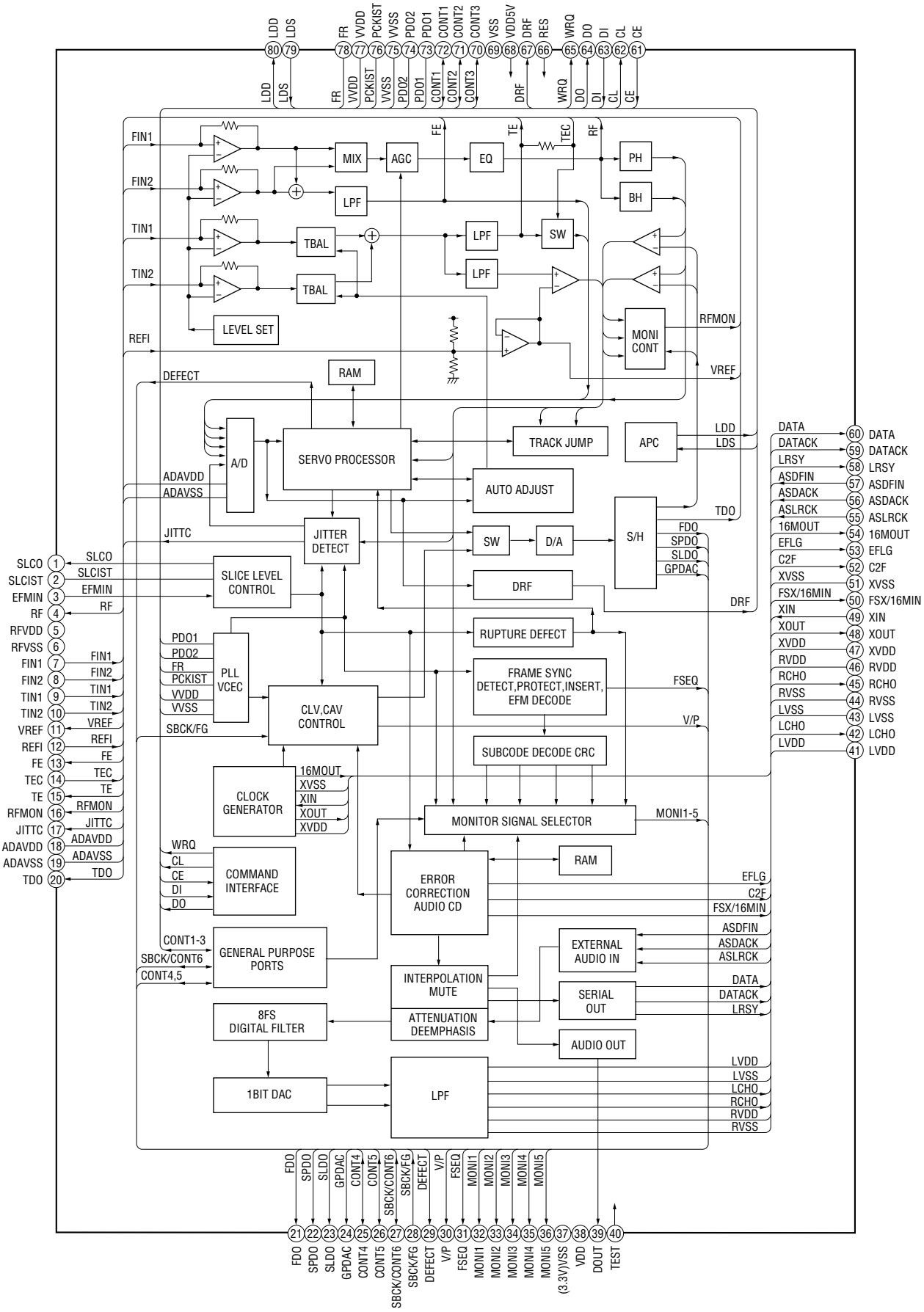
Ref. No.	Location
D901	G-2
D902	G-1
D903	I-2
D904	H-1

6-15. SCHEMATIC DIAGRAMS — POWER SUPPLY SECTION — • Refer to page 18 for Common Note on Schematic Diagrams.

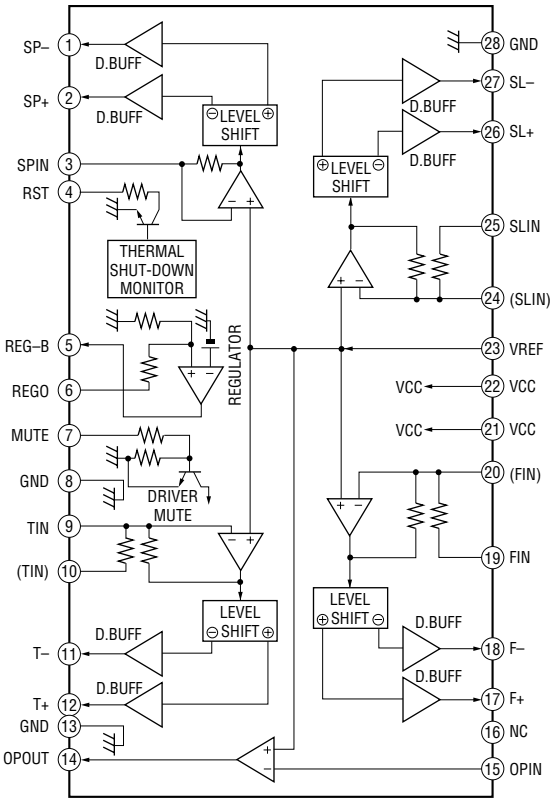


• **IC Block Diagrams**

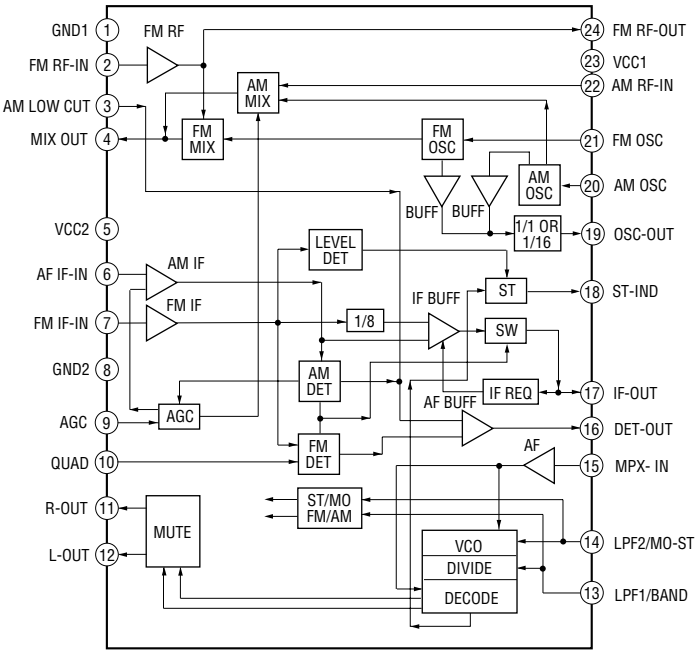
IC701 LC78645E (CD Board)



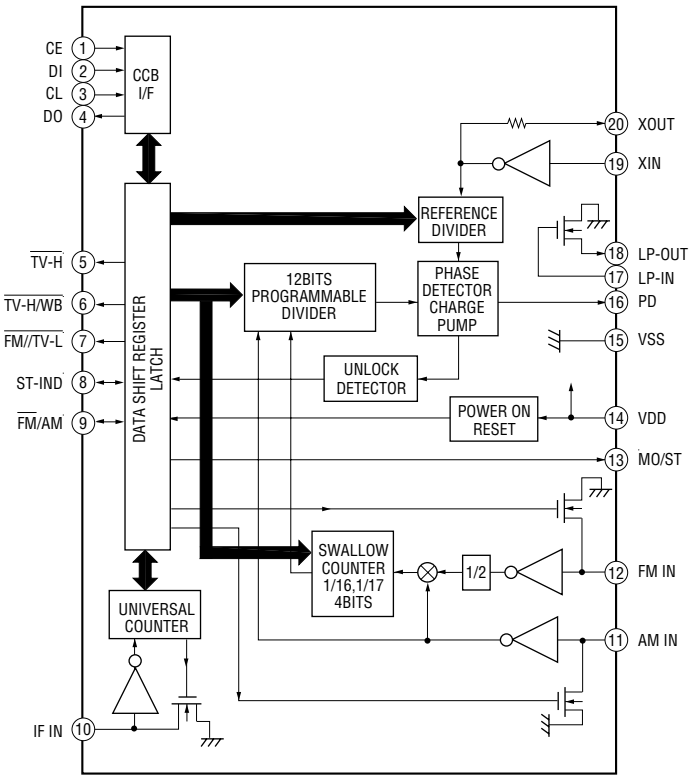
IC702 BA6998FP-E2 (CD Board)



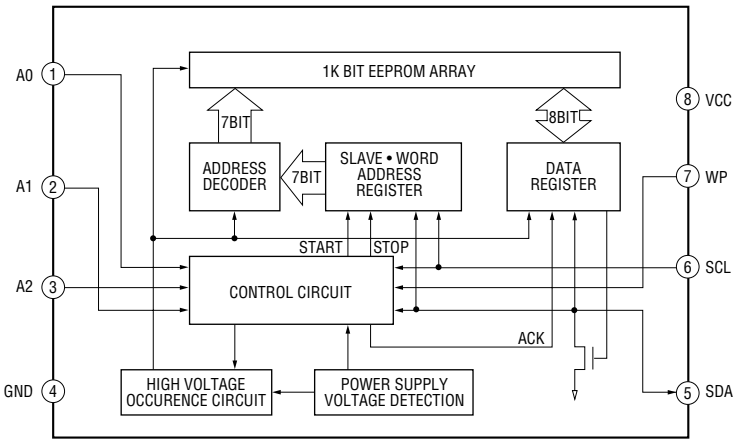
IC1 TA2149N (MAIN Board)



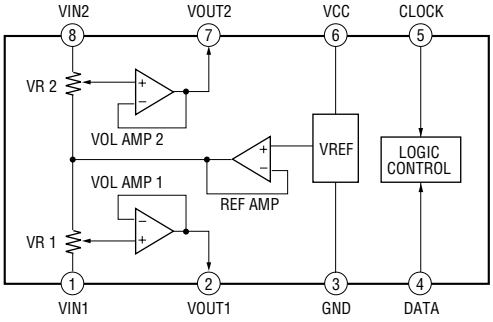
IC2 LC72137M-TLM (MAIN Board)



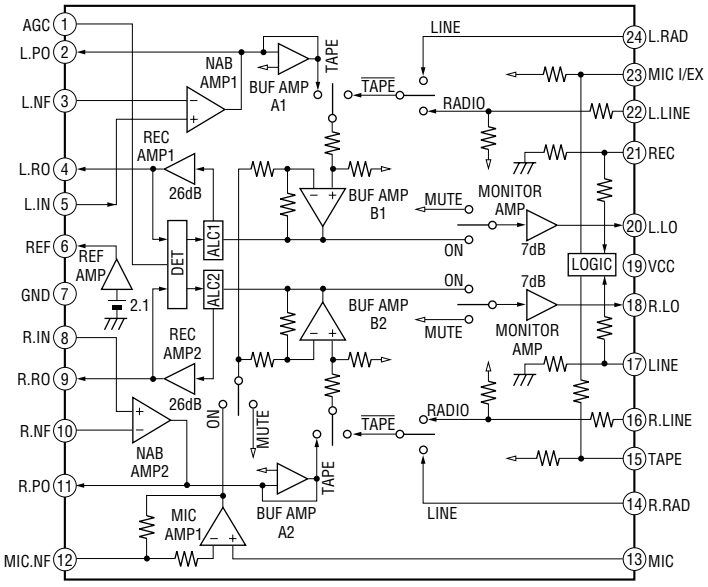
IC803 BR24C01AF-WE2 (MAIN Board)



IC302 M62429P (MAIN Board)



IC301 TA2068N (PRE Board)

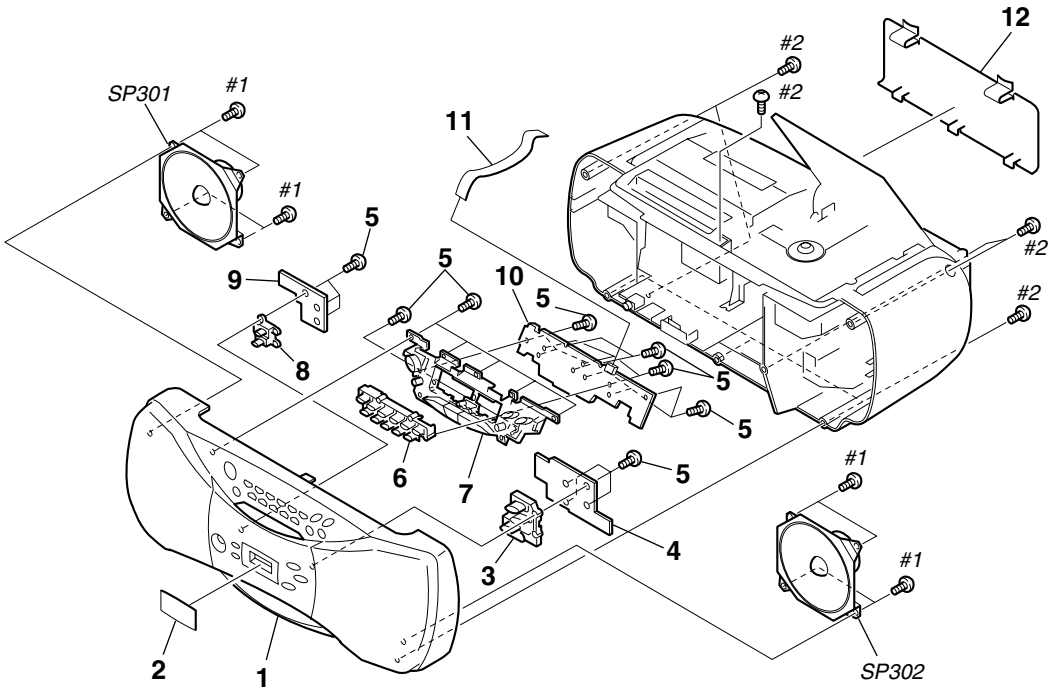


SECTION 7
EXPLODED VIEWS

NOTE:
- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Abbreviation
  CET : East European & CIS model
  IT : Italian model
- Color Indication of Appearance Parts
  Example :
  KNOB, BALANCE (WHITE) ... (RED)
  ↑ ↑
  Parts Color Cabinet's Color
- Accessories and packing materials and hardware (# mark) list are given in the last of this parts list.

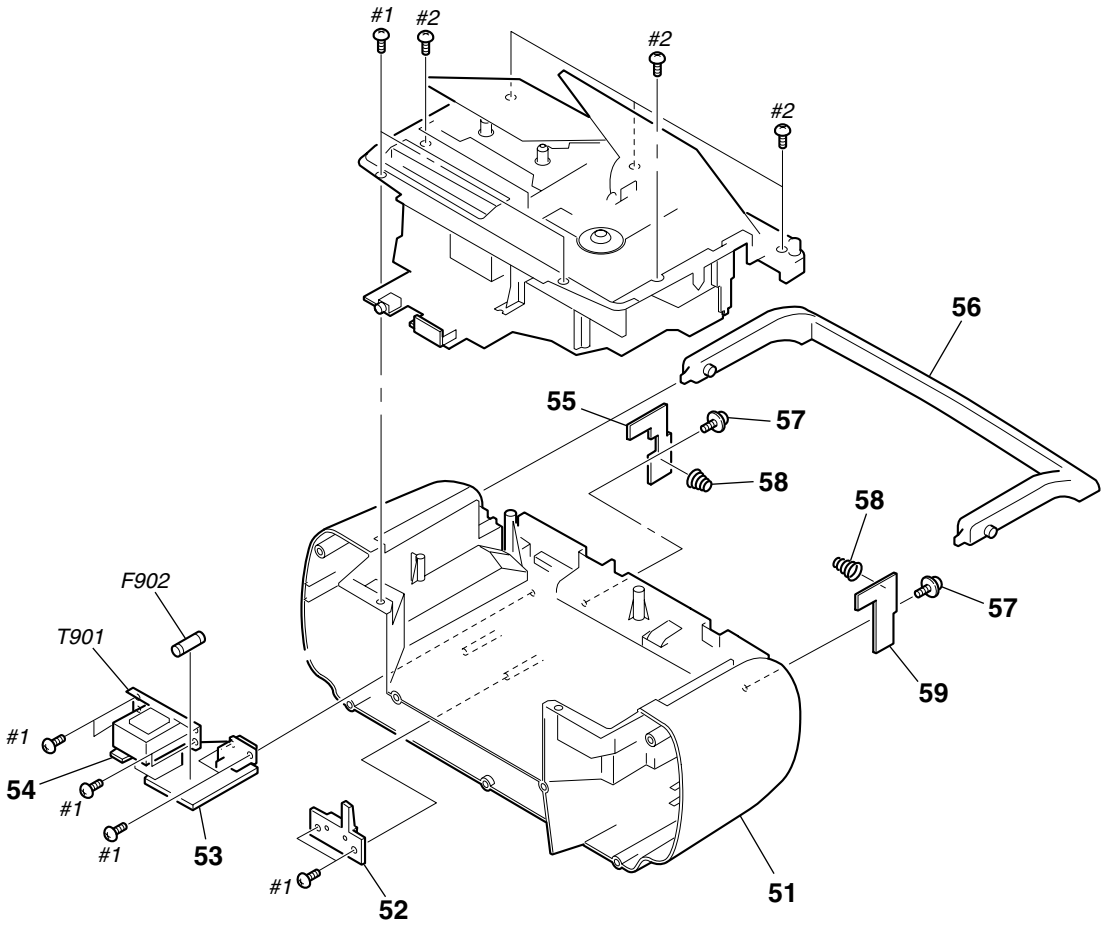
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

7-1. CABINET (FRONT) SECTION



Ref. No.	Part No.	Description	Remark
1	X-3380-171-1	CABINET (FRONT) SUB ASSY (S) (SILVER) (S26L)	
1	X-3380-172-1	CABINET (FRONT) SUB ASSY (L) (BLUE) (S26L)	
1	X-3380-177-1	CABINET (FRONT) SUB ASSY (S) (SILVER) (S36L)	
2	3-224-360-01	WINDOW (LCD) (S26L)	
2	3-224-360-11	WINDOW (LCD) (S36L)	
3	3-224-358-01	BUTTON (FUNCTION)	
* 4	1-679-967-11	CONTROL (2) BOARD	
5	4-951-620-11	SCREW (2.6X10), +BVTP	
6	3-224-359-01	BUTTON (10 KEY)	
7	3-224-356-01	BUTTON (POWER)	
8	3-224-357-01	BUTTON (MODE)	
* 9	1-679-968-11	CONTROL (3) BOARD	
* 10	1-679-966-11	CONTROL (1) BOARD	
* 11	1-757-559-11	CABLE, FLAT 8P	
12	3-224-379-31	LID, BATTERY CASE (SILVER) (S26L)	
12	3-224-379-41	LID, BATTERY CASE (BLUE) (S26L)	
12	3-224-379-61	LID, BATTERY CASE (SILVER) (S36L)	
SP301	1-529-723-21	SPEAKER (10cm) (L-CH)	
SP302	1-529-723-21	SPEAKER (10cm) (R-CH)	

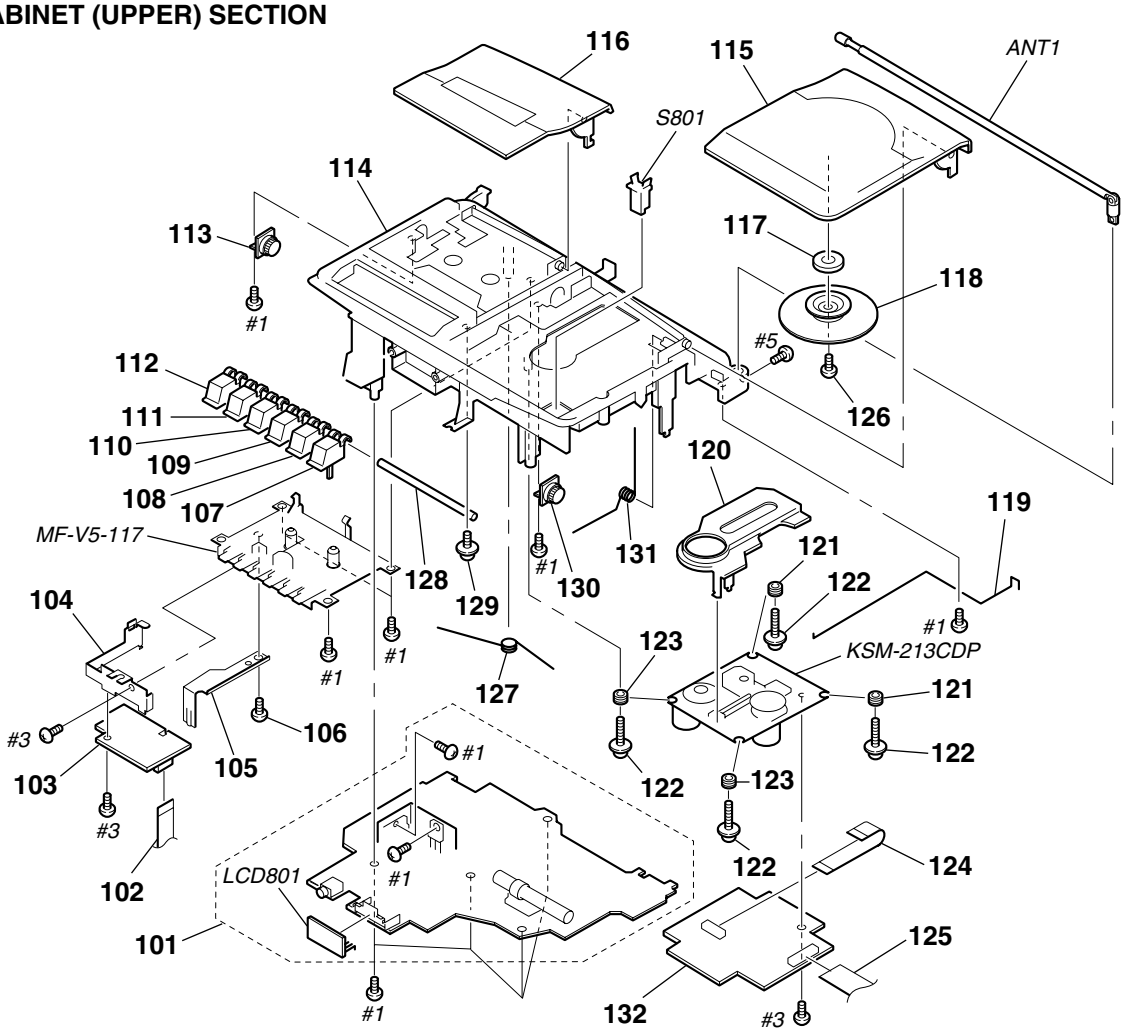
7-2. CABINET (REAR) SECTION



The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

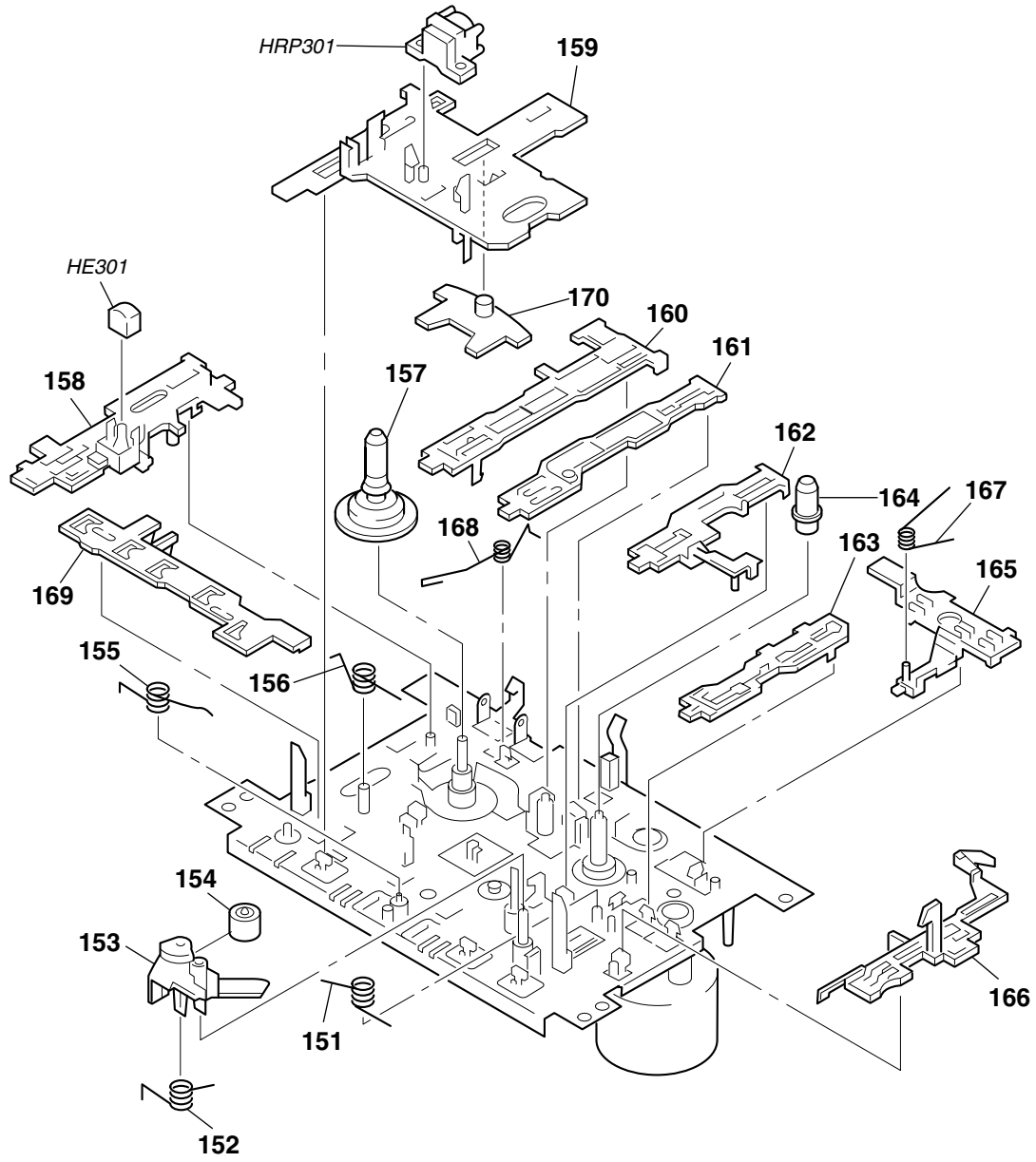
Ref. No.	Part No.	Description	Remark
51	3-224-368-61	CABINET (REAR) (SILVER) (S26L:AEP,UK,IT)	
51	3-224-368-71	CABINET (REAR) (SILVER) (S26L:CET)	
51	3-224-368-81	CABINET (REAR) (BLUE) (S26L:AEP,UK,IT)	
51	3-224-368-91	CABINET (REAR) (BLUE) (S26L:CET)	
51	3-227-958-51	CABINET (REAR) (SILVER) (S36L:AEP,UK,IT)	
51	3-227-958-61	CABINET (REAR) (SILVER) (S36L:CET)	
52	3-034-633-01	COVER (VOL SEL)	
* 53	1-679-969-11	POWER (1) BOARD	
* 54	1-679-970-11	POWER (2) BOARD	
* 55	1-679-964-11	BATTERY TERMINAL (1) BOARD	
56	3-224-372-01	HANDLE (SILVER) (S26L)	
56	3-224-372-41	HANDLE (BLUE) (S26L)	
56	3-224-372-51	HANDLE (SILVER) (S36L)	
57	4-960-167-01	SCREW (3X8) (DIA.10), +WH	
58	3-028-154-01	TERMINAL (–), BATTERY	
* 59	1-679-965-11	BATTERY TERMINAL (2) BOARD	
⚠F902	1-533-469-11	FUSE, TIME-LAG (T2.5AL/250V)	
⚠T901	1-435-918-11	TRANSFORMER, POWER (S36L)	
⚠T901	1-435-921-11	TRANSFORMER, POWER (S26L)	

7-3. CABINET (UPPER) SECTION



Ref. No.	Part No.	Description	Remark
* 101	A-3347-190-A	MAIN BOARD, COMPLETE (S26L)	
* 101	A-3347-194-A	MAIN BOARD, COMPLETE (S36L)	
* 102	1-757-714-11	CABLE, FLEXIBLE FLAT 13P	
* 103	A-3347-189-A	PRE BOARD, COMPLETE	
104	3-222-726-01	CHASSIS (TC)	
105	3-222-727-01	LEVER (REC)	
106	4-951-620-01	SCREW (2.6X8), +BVTP	
107	3-224-378-31	BUTTON (PAUSE) (S26L)	
107	3-224-378-51	BUTTON (PAUSE) (S36L)	
108	3-224-377-31	BUTTON (STOP) (S26L)	
108	3-224-377-51	BUTTON (STOP) (S36L)	
109	3-224-376-31	BUTTON (FF) (S26L)	
109	3-224-376-51	BUTTON (FF) (S36L)	
110	3-224-375-31	BUTTON (REW) (S26L)	
110	3-224-375-51	BUTTON (REW) (S36L)	
111	3-224-374-31	BUTTON (PLAY) (S26L)	
111	3-224-374-51	BUTTON (PLAY) (S36L)	
112	3-224-373-31	BUTTON (REC) (S26L)	
112	3-224-373-51	BUTTON (REC) (S36L)	
113	3-922-112-21	DAMPER	
114	3-224-369-31	CABINET (UPPER) (SILVER) (S26L)	
114	3-224-369-41	CABINET (UPPER) (BLUE) (S26L)	
114	3-224-369-61	CABINET (UPPER) (SILVER) (S36L)	
115	3-224-370-31	LID (CD) (SILVER) (S26L)	
115	3-224-370-41	LID (CD) (BLUE) (S26L)	
115	3-224-370-61	LID (CD) (SILVER) (S36L)	
116	X-3380-290-1	HOLDER ASSY (S), CASSETTE (SILVER) (S26L)	
116	X-3380-291-1	HOLDER ASSY (L), CASSETTE (BLUE) (S26L)	
116	X-3380-292-1	HOLDER ASSY (S), CASSETTE (SILVER) (S36L)	
117	1-452-899-11	MAGNET	
118	3-019-395-01	PLATE, CHUCKING	
119	3-224-367-01	TERMINAL, ANTENNA	
120	3-923-736-01	COVER, CD	
121	3-038-948-01	RUBBER, VIBRATION PROOF	
122	3-921-725-11	SCREW (2.6X10), +PWH	
123	3-038-948-11	RUBBER, VIBRATION PROOF	
124	1-757-689-11	CABLE, FLEXIBLE FLAT 16P	
* 125	1-757-561-11	CABLE, FLAT 14P	
126	4-951-620-11	SCREW (2.6X10), +BVTP	
127	3-031-561-01	SPRING (CASSETTE)	
128	3-031-560-01	SHAFT (MD)	
129	4-960-167-01	SCREW (3X8) (DIA.10), +WH	
130	3-922-112-41	DAMPER	
131	3-031-562-01	SPRING (CD)	
* 132	A-3347-089-A	CD BOARD, COMPLETE	
ANT1	1-501-883-21	ANTENNA, TELESCOPIC	
LCD801	1-804-243-11	DISPLAY PANEL, LIQUID CRYSTAL	
S801	1-692-960-11	SWITCH, PUSH (1 KEY) (⏏ PUSH OPEN/CLOSE)	

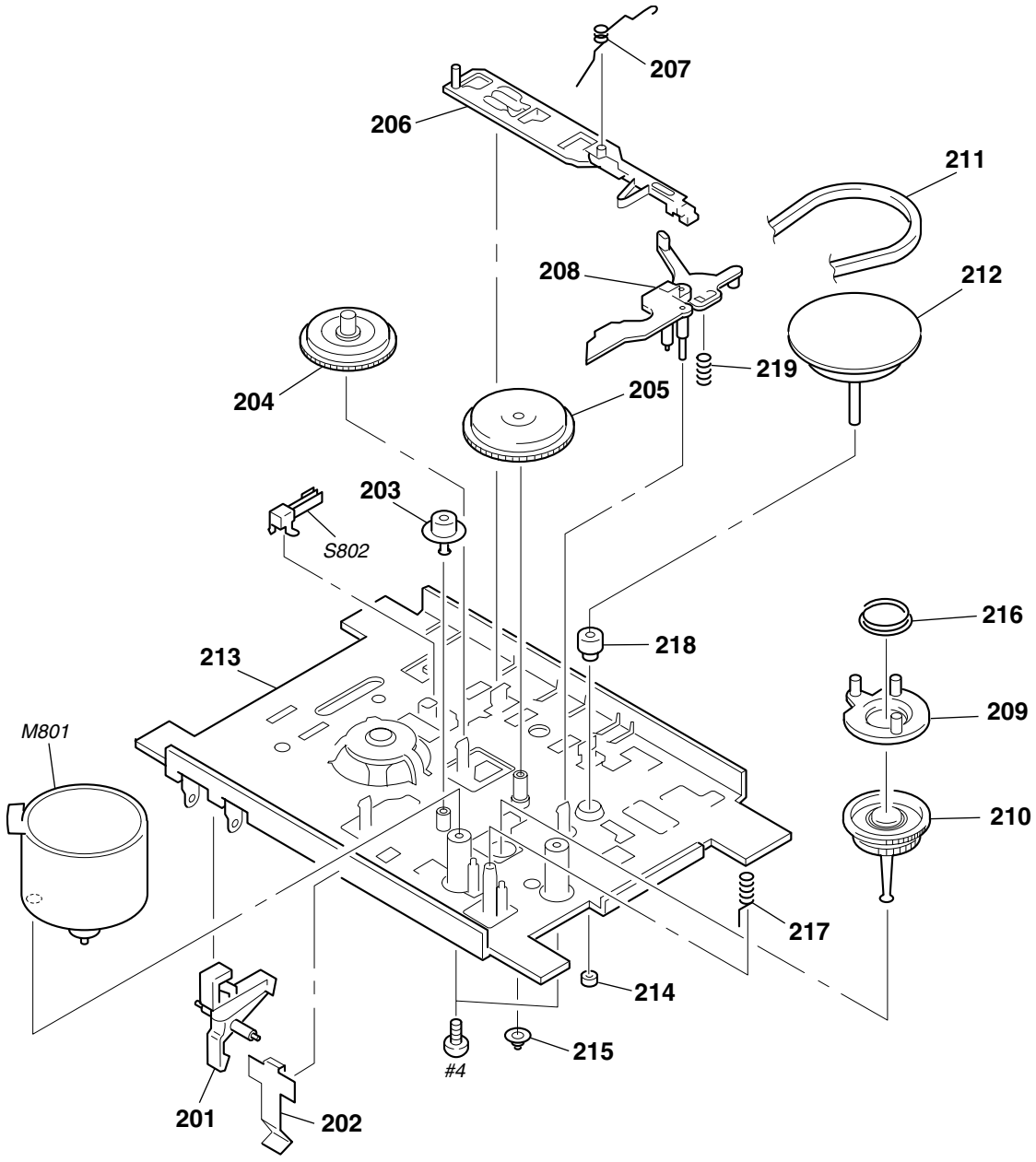
7-4. TAPE MECHANISM SECTION-1 (MF-V5-117)



Ref. No.	Part No.	Description	Remark
151	3-933-010-01	SPRING (S/P), TORSION	
152	3-933-025-01	SPRING (P), TORSION	
153	3-040-857-01	LEVER (P)	
154	3-934-024-01	ROLLER, PINCH	
155	3-933-019-01	SPRING (F/R), TORSION	
156	3-933-028-01	SPRING (FWD), TORSION	
157	3-933-016-01	GEAR (S REEL)	
158	3-008-590-01	SLIDER (REC)	
159	3-008-592-01	BASE (H), HEAD	
* 160	3-008-588-01	SLIDER (REW)	
* 161	3-008-589-13	SLIDER (FF)	

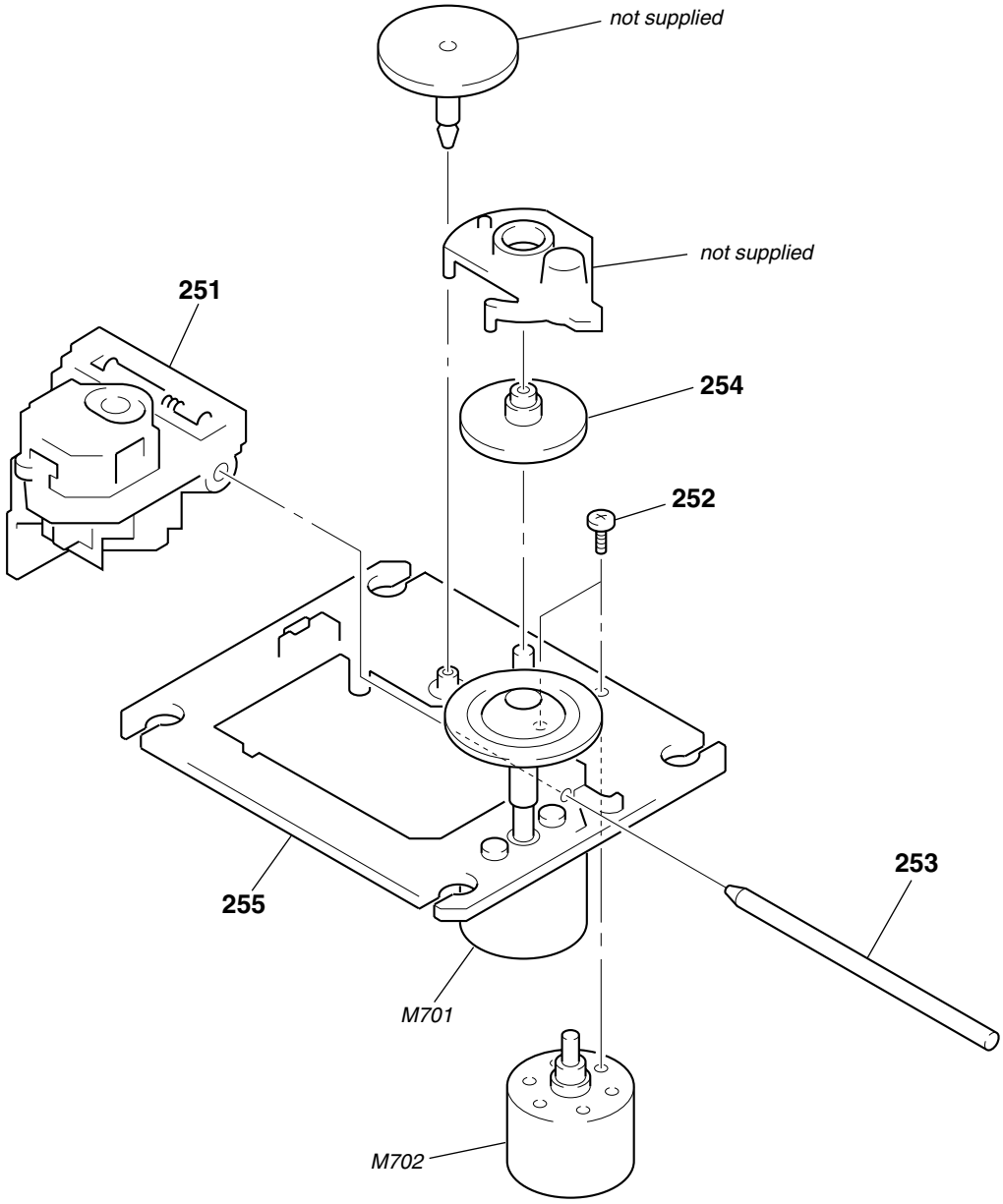
Ref. No.	Part No.	Description	Remark
* 162	3-008-587-01	SLIDER (STOP)	
* 163	3-008-591-01	SLIDER (PAUSE)	
164	3-933-004-01	CLAW, REEL	
* 165	3-933-021-01	SLIDER (FRP)	
* 166	3-933-006-01	SLIDER (EJECT)	
167	3-934-833-01	SPRING (FRP)	
168	3-022-794-02	SPRING (BT)	
169	3-933-007-01	PLATE, LOCK	
* 170	3-012-114-01	LEVER (FR)	
HE301	1-543-876-11	HEAD (ERASE)	
HRP301	1-500-668-11	HEAD, MAGNETIC (RECORD/PLAYBACK)	

7-5. TAPE MECHANISM SECTION-2 (MF-V5-117)



Ref. No.	Part No.	Description	Remark
201	3-933-029-01	LEVER, ERASING PREVENTION	
202	3-933-182-01	SPRING, CASSETTE	
203	3-932-995-01	GEAR (MID)	
204	X-3371-667-1	CLUTCH ASSY	
205	3-932-997-01	GEAR (CAM)	
* 206	3-932-999-01	SLIDER (SW)	
207	3-932-998-01	SPRING (GROUND), TORSION	
208	3-009-648-01	LEVER (S.OFF)	
209	3-936-438-01	LEVER (K)	
210	X-3373-572-1	REEL ASSY (N), T	
211	3-933-020-01	BELT	
212	X-3377-877-2	FLYWHEEL ASSY	
213	3-932-993-01	CHASSIS, OUTSERT	
214	3-343-358-01	RING, RETAINING	
215	3-223-156-01	SPRING (CAM), COMPRESSION	
216	3-009-650-02	SPRING (K), COMPRESSION	
217	3-937-760-01	SPRING (GROUND), COMPRESSION	
218	3-934-336-01	BEARING	
219	3-939-383-02	SPRING, COMPRESSION	
M801	A-3320-446-A	MOTOR ASSY (CAPSTAN/REEL)	
S802	1-762-679-11	SWITCH, LEAF (TAPE PLAY)	

7-6. OPTICAL PICK-UP SECTION (KSM-213CDP)



The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref. No.	Part No.	Description	Remark
⚠251	8-848-483-05	PICK-UP, OPTICAL KSS-213C/Q-RP	
252	3-713-786-51	SCREW +P 2X3	
253	2-626-908-01	SHAFT, SLED	
254	2-627-003-01	GEAR (B) (RP)	
255	X-2646-381-1	CHASSIS ASSY (MB), MOTOR (SPINDLE) (including M701)	
M702	X-2625-769-1	GEAR ASSY (MB), MOTOR (SLED)	

BATTERY TERMINAL (1)

BATTERY TERMINAL (2)

CD

SECTION 8
ELECTRICAL PARTS LIST

NOTE:
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL:Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F:nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u : µ, for example:
  uA.. : µA.. uPA.. : µPA..
  uPB.. : µPB.. uPC.. : µPC.. uPD.. : µPD..
- CAPACITORS
  uF : µF
- COILS
  uH : µH

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

When indicating parts by reference number, please include the board.

- Abbreviation
  CET : East European & CIS model
  IT : Italian model

Ref. No.	Part No.	Description			Remark
*	1-679-964-11	BATTERY TERMINAL (1) BOARD			
		**********			
	3-028-154-01	TERMINAL (–), BATTERY			
**********					
*	1-679-965-11	BATTERY TERMINAL (2) BOARD			
		**********			
	3-028-154-01	TERMINAL (–), BATTERY			
		< CONNECTOR >			
* CNP904	1-580-163-11	PIN, CONNECTOR (PC BOARD) 2P			
**********					
*	A-3347-089-A	CD BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C701	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C702	1-104-664-11	ELECT	47uF	20%	10V
C703	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C704	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C705	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C706	1-126-960-11	ELECT	1uF	20%	50V
C707	1-115-156-11	CERAMIC CHIP	1uF		10V
C708	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C709	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C711	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C712	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C713	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C716	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C717	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C720	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C721	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C722	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C723	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C724	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C725	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C726	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C727	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C728	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C729	1-125-837-00	CERAMIC CHIP	1uF	10%	6.3V
C730	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C731	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C732	1-104-665-11	ELECT	100uF	20%	10V

Ref. No.	Part No.	Description			Remark
C733	1-104-665-11	ELECT	100uF	20%	10V
C734	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C735	1-126-916-11	ELECT	1000uF	20%	6.3V
C736	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C740	1-126-935-11	ELECT	470uF	20%	10V
C741	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C742	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C743	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C744	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C745	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C746	1-126-935-11	ELECT	470uF	20%	16V
C747	1-126-935-11	ELECT	470uF	20%	16V
C750	1-126-935-11	ELECT	470uF	20%	16V
C751	1-164-156-11	CERAMIC CHIP	0.1uF		25V
		< CONNECTOR >			
CNP701	1-779-466-11	CONNECTOR, FFC (LIF(NON-ZIF)) 16P			
* CNP702	1-784-736-11	CONNECTOR, FFC 14P			
		< FERRITE BEAD >			
FB701	1-469-701-21	INDUCTOR, FERRITE BEAD			
		< IC >			
IC701	8-759-830-25	IC LC78645E			
IC702	8-759-591-62	IC BA6998FP-E2			
		< JUMPER RESISTOR >			
JC701	1-216-864-11	SHORT	0		
JC702	1-216-864-11	SHORT	0		
JC703	1-216-864-11	SHORT	0		
JC704	1-216-813-11	METAL CHIP	220	5%	1/16W
		< FERRITE BEAD >			
L706	1-414-445-11	FERRITE, EMI (SMD)			
		< TRANSISTOR >			
Q701	8-729-054-57	TRANSISTOR KTN2907AS-RTK			
		< RESISTOR >			
R701	1-216-841-11	METAL CHIP	47K	5%	1/16W
R702	1-216-835-11	METAL CHIP	15K	5%	1/16W
R703	1-216-835-11	METAL CHIP	15K	5%	1/16W
R704	1-216-835-11	METAL CHIP	15K	5%	1/16W
R705	1-216-835-11	METAL CHIP	15K	5%	1/16W

Ref. No.	Part No.	Description			Remark
R706	1-216-841-11	METAL CHIP	47K	5%	1/16W
R707	1-216-797-11	METAL CHIP	10	5%	1/16W
R708	1-216-833-11	METAL CHIP	10K	5%	1/16W
R709	1-216-837-11	METAL CHIP	22K	5%	1/16W
R710	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R711	1-216-815-11	METAL CHIP	330	5%	1/16W
R712	1-216-809-11	METAL CHIP	100	5%	1/16W
R714	1-216-811-11	METAL CHIP	150	5%	1/16W
R715	1-216-811-11	METAL CHIP	150	5%	1/16W
R716	1-216-821-11	METAL CHIP	1K	5%	1/16W
R717	1-216-821-11	METAL CHIP	1K	5%	1/16W
R718	1-216-821-11	METAL CHIP	1K	5%	1/16W
R719	1-216-809-11	METAL CHIP	100	5%	1/16W
R720	1-216-809-11	METAL CHIP	100	5%	1/16W
R721	1-216-821-11	METAL CHIP	1K	5%	1/16W
R722	1-216-809-11	METAL CHIP	100	5%	1/16W
R723	1-216-809-11	METAL CHIP	100	5%	1/16W
R724	1-216-841-11	METAL CHIP	47K	5%	1/16W
R725	1-216-819-11	METAL CHIP	680	5%	1/16W
R726	1-216-819-11	METAL CHIP	680	5%	1/16W
R727	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R728	1-216-833-11	METAL CHIP	10K	5%	1/16W
R729	1-216-813-11	METAL CHIP	220	5%	1/16W
R730	1-216-821-11	METAL CHIP	1K	5%	1/16W
R731	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R741	1-216-831-11	METAL CHIP	6.8K	5%	1/16W
R743	1-216-831-11	METAL CHIP	6.8K	5%	1/16W
R744	1-216-845-11	METAL CHIP	100K	5%	1/16W
		< SWITCH >			
S701	1-762-812-11	SWITCH, LEAF (LIMIT)			
		< VIBRATOR >			
X701	1-795-173-11	VIBRATOR, CERAMIC (33.86MHz)			
**********					
*	1-679-966-11	CONTROL (1) BOARD			
		**********			
		< CONNECTOR >			
CNP401	1-770-516-31	CONNECTOR, FFC 8P			
		< JUMPER RESISTOR >			
JC401	1-216-864-11	SHORT	0		
JC402	1-216-864-11	SHORT	0		
		< CABLE HOLDER >			
* KH402	1-565-386-11	HOLDER, CABLE 5P			
* KH403	1-565-384-11	HOLDER, CABLE 3P			
		< RESISTOR >			
R401	1-216-819-11	METAL CHIP	680	5%	1/16W

Ref. No.	Part No.	Description			Remark
R402	1-216-815-11	METAL CHIP	330	5%	1/16W
R403	1-216-817-11	METAL CHIP	470	5%	1/16W
R404	1-216-821-11	METAL CHIP	1K	5%	1/16W
R405	1-216-823-11	METAL CHIP	1.5K	5%	1/16W
R406	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
R407	1-216-831-11	METAL CHIP	6.8K	5%	1/16W
R408	1-216-835-11	METAL CHIP	15K	5%	1/16W
R413	1-216-823-11	METAL CHIP	1.5K	5%	1/16W
R417	1-216-819-11	METAL CHIP	680	5%	1/16W
R418	1-216-815-11	METAL CHIP	330	5%	1/16W
R419	1-216-817-11	METAL CHIP	470	5%	1/16W
R420	1-216-821-11	METAL CHIP	1K	5%	1/16W
R421	1-216-823-11	METAL CHIP	1.5K	5%	1/16W
R422	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
R423	1-216-831-11	METAL CHIP	6.8K	5%	1/16W
R424	1-216-835-11	METAL CHIP	15K	5%	1/16W
R425	1-216-819-11	METAL CHIP	680	5%	1/16W
R426	1-216-815-11	METAL CHIP	330	5%	1/16W
R427	1-216-817-11	METAL CHIP	470	5%	1/16W
R428	1-216-821-11	METAL CHIP	1K	5%	1/16W
R429	1-216-823-11	METAL CHIP	1.5K	5%	1/16W
R430	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
R431	1-216-831-11	METAL CHIP	6.8K	5%	1/16W
R432	1-216-835-11	METAL CHIP	15K	5%	1/16W
R440	1-216-815-11	METAL CHIP	330	5%	1/16W
R441	1-216-815-11	METAL CHIP	330	5%	1/16W
R442	1-216-815-11	METAL CHIP	330	5%	1/16W
		< SWITCH >			
S401	1-786-050-21	SWITCH, KEYBOARD (OPERATE)			
S402	1-786-050-21	SWITCH, KEYBOARD (SLEEP)			
S403	1-786-050-21	SWITCH, KEYBOARD (►❚❚)			
S404	1-786-050-21	SWITCH, KEYBOARD (■)			
S405	1-786-050-21	SWITCH, KEYBOARD (TUNE +, ►►I)			
S406	1-786-050-21	SWITCH, KEYBOARD (TUNE –, I◄◄)			
S413	1-786-050-21	SWITCH, KEYBOARD (VOLUME –)			
S414	1-786-050-21	SWITCH, KEYBOARD (VOLUME +)			
S415	1-786-050-21	SWITCH, KEYBOARD (MEGA Xpand) (S36L)			
S416	1-786-050-21	SWITCH, KEYBOARD (MEGA BASS)			
S417	1-786-050-21	SWITCH, KEYBOARD (>10)			
S418	1-786-050-21	SWITCH, KEYBOARD (0/10)			
S419	1-786-050-21	SWITCH, KEYBOARD (9)			
S420	1-786-050-21	SWITCH, KEYBOARD (6)			
S421	1-786-050-21	SWITCH, KEYBOARD (5)			
S422	1-786-050-21	SWITCH, KEYBOARD (4)			
S423	1-786-050-21	SWITCH, KEYBOARD (3)			
S424	1-786-050-21	SWITCH, KEYBOARD (2)			
S425	1-786-050-21	SWITCH, KEYBOARD (1)			
S426	1-786-050-21	SWITCH, KEYBOARD (7)			
S427	1-786-050-21	SWITCH, KEYBOARD (8)			
**********					

CONTROL (2) | CONTROL (3) | MAIN

Ref. No.	Part No.	Description			Remark
*	1-679-967-11	CONTROL (2) BOARD			
		**********			
		< CABLE HOLDER >			
* CNP404	1-565-386-11	HOLDER, CABLE 5P			
		< IC >			
IC401	8-749-018-72	IC SPS-442-E (S36L)			
		< RESISTOR >			
R409	1-216-819-11	METAL CHIP	680	5%	1/16W
R410	1-216-815-11	METAL CHIP	330	5%	1/16W
R411	1-216-817-11	METAL CHIP	470	5%	1/16W
R412	1-216-821-11	METAL CHIP	1K	5%	1/16W
R437	1-216-833-11	METAL CHIP	10K	5%	1/16W (S26L)
R437	1-216-853-11	METAL CHIP	470K	5%	1/16W (S36L)
R438	1-216-849-11	METAL CHIP	220K	5%	1/16W (S36L)
R439	1-216-815-11	METAL CHIP	330	5%	1/16W
		< SWITCH >			
S407	1-786-050-21	SWITCH, KEYBOARD (CD)			
S408	1-786-050-21	SWITCH, KEYBOARD (TAPE)			
S409	1-786-050-21	SWITCH, KEYBOARD (RADIO BAND•AUTO PRESET)			
**********					
*	1-679-968-11	CONTROL (3) BOARD			
		**********			
		< DIODE >			
D451	8-719-059-97	LED L-34HD (OPR/BATT)			
		< CABLE HOLDER >			
* KH405	1-565-384-11	HOLDER, CABLE 3P			
		< RESISTOR >			
R414	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
R415	1-216-831-11	METAL CHIP	6.8K	5%	1/16W
R416	1-216-835-11	METAL CHIP	15K	5%	1/16W
R434	1-216-817-11	METAL CHIP	470	5%	1/16W
R435	1-216-813-11	METAL CHIP	220	5%	1/16W
R436	1-216-811-11	METAL CHIP	150	5%	1/16W
		< SWITCH >			
S411	1-786-050-21	SWITCH, KEYBOARD (DISPLAY ENT•MEMORY)			
S412	1-786-050-21	SWITCH, KEYBOARD (MODE)			
**********					

Ref. No.	Part No.	Description			Remark
*	A-3347-190-A	MAIN BOARD, COMPLETE (S26L)			
*	A-3347-194-A	MAIN BOARD, COMPLETE (S36L)			
		**********			
	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S			
		< CAPACITOR >			
C1	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C2	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C3	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C4	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C5	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C6	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C7	1-162-910-11	CERAMIC CHIP	5PF	0.25PF	50V
C8	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C9	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C10	1-115-871-11	ELECT	1uF	20%	50V
C11	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C12	1-126-794-11	ELECT	4.7uF	20%	50V
C14	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C15	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C16	1-115-871-11	ELECT	1uF	20%	50V
C17	1-115-871-11	ELECT	1uF	20%	50V
C18	1-126-176-11	ELECT	220uF	20%	10V
C20	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C21	1-115-871-11	ELECT	1uF	20%	50V
C22	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C23	1-115-871-11	ELECT	1uF	20%	50V
C24	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C25	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C29	1-126-382-11	ELECT	100uF	20%	10V
C30	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C31	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C32	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C33	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C34	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C35	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C37	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C39	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C40	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C41	1-164-230-11	CERAMIC CHIP	220PF	5%	50V
C42	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C43	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C44	1-164-230-11	CERAMIC CHIP	220PF	5%	50V
C45	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C46	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C48	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C49	1-161-772-11	CERAMIC	0.1uF	10%	25V
C51	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C52	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C53	1-137-194-81	FILM	0.47uF	5%	50V
C54	1-126-176-11	ELECT	220uF	20%	10V
C55	1-162-927-11	CERAMIC CHIP	100PF	5%	50V

Ref. No.	Part No.	Description			Remark
C56	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C57	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C58	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C59	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C60	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C61	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C62	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C63	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C64	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C66	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C68	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C70	1-162-910-11	CERAMIC CHIP	5PF	0.25PF	50V
C71	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C72	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C73	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C77	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C78	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C80	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C93	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C95	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C122	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C124	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C125	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C126	1-126-959-11	ELECT	0.47uF	20%	50V
C128	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C129	1-104-664-11	ELECT	47uF	20%	10V
C130	1-104-665-11	ELECT	100uF	20%	10V
C131	1-126-926-11	ELECT	1000uF	20%	10V
C132	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C133	1-126-960-11	ELECT	1uF	20%	50V (S36L)
C133	1-126-963-11	ELECT	4.7uF	20%	50V (S26L)
C134	1-126-961-11	ELECT	2.2uF	20%	50V (S36L)
C134	1-126-963-11	ELECT	4.7uF	20%	50V (S26L)
C171	1-126-964-11	ELECT	10uF	20%	50V
C222	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C224	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C225	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C226	1-126-959-11	ELECT	0.47uF	20%	50V
C228	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C229	1-104-664-11	ELECT	47uF	20%	10V
C230	1-104-665-11	ELECT	100uF	20%	10V
C231	1-126-926-11	ELECT	1000uF	20%	10V
C232	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C233	1-126-960-11	ELECT	1uF	20%	50V (S36L)
C233	1-126-963-11	ELECT	4.7uF	20%	50V (S26L)
C234	1-126-961-11	ELECT	2.2uF	20%	50V (S36L)
C234	1-126-963-11	ELECT	4.7uF	20%	50V (S26L)
C271	1-126-964-11	ELECT	10uF	20%	50V
C303	1-126-933-11	ELECT	100uF	20%	16V
C321	1-126-935-11	ELECT	470uF	20%	10V
C322	1-104-664-11	ELECT	47uF	20%	10V
C323	1-126-964-11	ELECT	10uF	20%	50V
C324	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C325	1-126-937-11	ELECT	4700uF	20%	16V
C326	1-126-934-11	ELECT	220uF	20%	16V
C329	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C331	1-104-664-11	ELECT	47uF	20%	10V
C332	1-126-963-11	ELECT	4.7uF	20%	50V (S36L)
C333	1-126-963-11	ELECT	4.7uF	20%	50V (S36L)
C334	1-104-664-11	ELECT	47uF	20%	10V (S36L)
C801	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C802	1-104-665-11	ELECT	100uF	20%	10V
C803	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C804	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C805	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C806	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C807	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C808	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C809	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C810	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C812	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C813	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C814	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C815	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C816	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C817	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C818	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C819	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C820	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C821	1-126-960-11	ELECT	1uF	20%	50V
C822	1-126-934-11	ELECT	220uF	20%	10V
C824	1-126-960-11	ELECT	1uF	20%	50V
C825	1-126-964-11	ELECT	10uF	20%	50V (S36L)
C830	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C831	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C832	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C833	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C834	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C835	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C836	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C837	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C838	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C951	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C952	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C953	1-126-935-11	ELECT	470uF	20%	10V

MAIN

Ref. No.	Part No.	Description	Remark
C957	1-162-974-11	CERAMIC CHIP 0.01uF	50V
C959	1-104-665-11	ELECT 100uF 20%	10V
C960	1-162-974-11	CERAMIC CHIP 0.01uF	50V
		< FILTER >	
CF2	1-579-185-21	FILTER, CERAMIC	
CF4	1-781-962-21	FILTER, CERAMIC	
		< CONNECTOR >	
* CNP302	1-580-165-31	PIN, CONNECTOR (PC BOARD) 4P	
CNP323	1-506-986-11	PIN, CONNECTOR (PC BOARD) 4P	
* CNP804	1-784-736-11	CONNECTOR, FFC 14P	
CNP805	1-691-040-31	CONNECTOR, FFC 8P	
CNP806	1-784-735-11	CONNECTOR, FFC 13P	
		< TRIMMER >	
CT1	1-141-603-21	CAP, ADJ 20PF	
CT3	1-141-601-21	CAP, ADJ 10PF	
CT5	1-141-622-21	CAP, ADJ 50PF	
		< DIODE >	
D1	8-719-078-48	DIODE KV1471ETR1-3	
D2	8-719-078-48	DIODE KV1471ETR1-3	
D3	8-719-050-69	DIODE KV1520N	
D10	8-719-988-61	DIODE 1SS355TE-17	
D11	8-719-988-61	DIODE 1SS355TE-17	
D322	8-719-988-61	DIODE 1SS355TE-17	
D323	8-719-988-61	DIODE 1SS355TE-17	
D324	8-719-988-61	DIODE 1SS355TE-17	
D801	8-719-083-39	DIODE KDZ5.1V-RTK (S36L)	
D802	8-719-082-07	DIODE KDS121-RTK	
D803	8-719-082-07	DIODE KDS121-RTK	
D804	8-719-082-07	DIODE KDS121-RTK (S36L)	
D806	8-719-988-61	DIODE 1SS355TE-17	
D807	8-719-083-93	DIODE KDS120-RTK	
D951	8-719-988-61	DIODE 1SS355TE-17	
D952	8-719-988-61	DIODE 1SS355TE-17	
D953	8-719-084-00	DIODE KDZ7.5V-RTK	
D955	8-719-988-61	DIODE 1SS355TE-17	
D957	8-719-082-09	DIODE KDZ3.9V-RTK	
		< IC >	
IC1	8-759-662-67	IC TA2149N	
IC2	8-759-483-40	IC LC72137M-TLM	
IC302	8-759-539-45	IC M62429P	
IC304	8-759-426-51	IC BA5417	
IC801	8-759-658-46	IC S-81233SGY-Z	
IC802	8-759-712-09	IC uPD789477-907	
IC803	8-759-487-03	IC BR24C01AF-WE2	
IC804	8-759-645-87	IC PST9128-T	
		< JACK >	
J321	1-568-267-11	JACK (🎧)	

Ref. No.	Part No.	Description	Remark
		< JUMPER RESISTOR >	
JC1	1-216-864-11	SHORT 0	
JC2	1-216-864-11	SHORT 0	
JC3	1-216-864-11	SHORT 0	
JC4	1-216-864-11	SHORT 0	
JC5	1-216-864-11	SHORT 0	
JC6	1-216-864-11	SHORT 0	
JC22	1-216-864-11	SHORT 0	
JC23	1-216-864-11	SHORT 0	
JC24	1-216-864-11	SHORT 0	
JC302	1-216-864-11	SHORT 0	
JC303	1-216-864-11	SHORT 0	
JC304	1-216-864-11	SHORT 0	
JC305	1-216-864-11	SHORT 0 (S36L)	
JC306	1-216-864-11	SHORT 0	
JC307	1-216-864-11	SHORT 0	
JC308	1-216-864-11	SHORT 0	
		< CABLE HOLDER >	
* KH321	1-565-385-11	HOLDER, CABLE 4P	
* KH803	1-573-287-11	HOLDER, CABLE 2P	
		< COIL >	
L1	1-409-775-11	COIL, AIR-CORE	
L2	1-416-509-11	COIL, AIR-CORE	
L3	1-424-731-11	ANTENNA, FERRITE-ROD (MW/LW)	
L4	1-411-199-11	COIL, MW OSC	
L21	1-410-509-11	INDUCTOR 10uH	
L801	1-414-137-31	INDUCTOR 0.22uH	
L802	1-410-521-11	INDUCTOR 100uH	
		< LIQUID CRYSTAL DISPLAY >	
LCD801	1-804-243-11	DISPLAY PANEL, LIQUID CRYSTAL	
		< TRANSISTOR >	
Q12	8-729-028-99	TRANSISTOR DTC114YUA-T106	
Q14	8-729-905-35	TRANSISTOR 2SC4081-R	
Q41	8-729-920-31	TRANSISTOR DTC343TK	
Q42	8-729-054-77	TRANSISTOR 2SC4098-T106-PQ	
Q43	8-729-920-38	TRANSISTOR 2SC2059K-N	
Q44	8-729-054-77	TRANSISTOR 2SC4098-T106-PQ	
Q61	8-729-106-07	FET 2SK514-H	
Q122	8-729-054-58	TRANSISTOR KTC4075-RTK	
Q124	8-729-054-24	TRANSISTOR KRC410-RTK	
Q125	8-729-054-58	TRANSISTOR KTC4075-RTK	
Q222	8-729-054-58	TRANSISTOR KTC4075-RTK	
Q224	8-729-054-24	TRANSISTOR KRC410-RTK	
Q225	8-729-054-58	TRANSISTOR KTC4075-RTK	
Q301	8-729-054-58	TRANSISTOR KTC4075-RTK (S36L)	
Q801	8-729-054-21	TRANSISTOR KRC407-RTK	
Q804	8-729-054-07	TRANSISTOR KRA307-RTK	

Ref. No.	Part No.	Description			Remark
Q806	8-729-054-07	TRANSISTOR	KRA307-RTK		
Q807	8-729-212-02	TRANSISTOR	2SC2120-Y		
Q808	8-729-054-21	TRANSISTOR	KRC407-RTK		
Q812	8-729-054-14	TRANSISTOR	KRA314-RTK		
Q814	8-729-054-21	TRANSISTOR	KRC407-RTK		
Q817	8-729-055-41	TRANSISTOR	KTB1241Y-AT		
Q818	8-729-054-21	TRANSISTOR	KRC407-RTK		
Q819	8-729-054-18	TRANSISTOR	KRC404-RTK		
Q820	8-729-054-23	TRANSISTOR	KRC409-RTK		
Q951	8-729-054-15	TRANSISTOR	KRC401-RTK		
Q952	8-729-040-76	TRANSISTOR	KTA1273-Y-AT		
Q953	8-729-054-15	TRANSISTOR	KRC401-RTK		
Q955	8-729-021-82	TRANSISTOR	2SD2396K		
Q957	8-729-212-02	TRANSISTOR	2SC2120-Y		
		< RESISTOR >			
R1	1-216-817-11	METAL CHIP	470	5%	1/16W
R2	1-216-817-11	METAL CHIP	470	5%	1/16W
R3	1-216-833-11	METAL CHIP	10K	5%	1/16W
R4	1-216-833-11	METAL CHIP	10K	5%	1/16W
R7	1-216-853-11	METAL CHIP	470K	5%	1/16W
R9	1-216-845-11	METAL CHIP	100K	5%	1/16W
R10	1-216-805-11	METAL CHIP	47	5%	1/16W
R11	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
R12	1-216-841-11	METAL CHIP	47K	5%	1/16W
R13	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R16	1-216-833-11	METAL CHIP	10K	5%	1/16W
R17	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R18	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R19	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R22	1-216-833-11	METAL CHIP	10K	5%	1/16W
R24	1-216-813-11	METAL CHIP	220	5%	1/16W
R30	1-216-835-11	METAL CHIP	15K	5%	1/16W
R31	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
R32	1-216-845-11	METAL CHIP	100K	5%	1/16W
R33	1-216-805-11	METAL CHIP	47	5%	1/16W
R40	1-216-853-11	METAL CHIP	470K	5%	1/16W
R41	1-216-833-11	METAL CHIP	10K	5%	1/16W
R42	1-216-845-11	METAL CHIP	100K	5%	1/16W
R43	1-216-833-11	METAL CHIP	10K	5%	1/16W
R50	1-216-821-11	METAL CHIP	1K	5%	1/16W
R51	1-216-833-11	METAL CHIP	10K	5%	1/16W
R52	1-216-809-11	METAL CHIP	100	5%	1/16W
R53	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R54	1-216-817-11	METAL CHIP	470	5%	1/16W
R56	1-216-815-11	METAL CHIP	330	5%	1/16W
R58	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R59	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R60	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R61	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R63	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R64	1-216-821-11	METAL CHIP	1K	5%	1/16W
R66	1-216-805-11	METAL CHIP	47	5%	1/16W

Ref. No.	Part No.	Description			Remark
R91	1-216-821-11	METAL CHIP	1K	5%	1/16W
R92	1-216-821-11	METAL CHIP	1K	5%	1/16W
R93	1-216-821-11	METAL CHIP	1K	5%	1/16W
R94	1-216-821-11	METAL CHIP	1K	5%	1/16W
R125	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
R126	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R127	1-216-833-11	METAL CHIP	10K	5%	1/16W
R128	1-216-819-11	METAL CHIP	680	5%	1/16W
R130	1-216-811-11	METAL CHIP	150	5%	1/16W
R131	1-216-841-11	METAL CHIP	47K	5%	1/16W
R132	1-216-809-11	METAL CHIP	100	5%	1/16W
R140	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R141	1-216-831-11	METAL CHIP	6.8K	5%	1/16W
R142	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
R143	1-216-853-11	METAL CHIP	470K	5%	1/16W
R144	1-216-789-11	METAL CHIP	2.2	5%	1/16W
R145	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
R225	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
R226	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R227	1-216-833-11	METAL CHIP	10K	5%	1/16W
R228	1-216-819-11	METAL CHIP	680	5%	1/16W
R230	1-216-811-11	METAL CHIP	150	5%	1/16W
R231	1-216-841-11	METAL CHIP	47K	5%	1/16W
R232	1-216-809-11	METAL CHIP	100	5%	1/16W
R240	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R241	1-216-831-11	METAL CHIP	6.8K	5%	1/16W
R242	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
R243	1-216-853-11	METAL CHIP	470K	5%	1/16W
R244	1-216-789-11	METAL CHIP	2.2	5%	1/16W
R245	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
R306	1-216-833-11	METAL CHIP	10K	5%	1/16W
R321	1-216-813-11	METAL CHIP	220	5%	1/16W
R322	1-216-833-11	METAL CHIP	10K	5%	1/16W
R323	1-216-857-11	METAL CHIP	1M	5%	1/16W
R324	1-216-845-11	METAL CHIP	100K	5%	1/16W
R325	1-216-817-11	METAL CHIP	470	5%	1/16W
R326	1-216-857-11	METAL CHIP	1M	5%	1/16W (S36L)
R327	1-216-857-11	METAL CHIP	1M	5%	1/16W (S36L)
R328	1-216-845-11	METAL CHIP	100K	5%	1/16W (S36L)
R329	1-216-825-11	METAL CHIP	2.2K	5%	1/16W (S36L)
R330	1-216-825-11	METAL CHIP	2.2K	5%	1/16W (S36L)
R331	1-216-809-11	METAL CHIP	100	5%	1/16W
R332	1-216-809-11	METAL CHIP	100	5%	1/16W
R333	1-216-833-11	METAL CHIP	10K	5%	1/16W
R382	1-216-821-11	METAL CHIP	1K	5%	1/16W
R802	1-216-841-11	METAL CHIP	47K	5%	1/16W
R803	1-216-841-11	METAL CHIP	47K	5%	1/16W
R804	1-216-833-11	METAL CHIP	10K	5%	1/16W
R805	1-216-833-11	METAL CHIP	10K	5%	1/16W

MAIN **POWER (1)** **POWER (2)**

Ref. No.	Part No.	Description			Remark
R807	1-216-833-11	METAL CHIP	10K	5%	1/16W
R809	1-216-833-11	METAL CHIP	10K	5%	1/16W
R814	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R815	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R816	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R821	1-216-864-11	SHORT	0		
R824	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R825	1-216-821-11	METAL CHIP	1K	5%	1/16W
R827	1-216-821-11	METAL CHIP	1K	5%	1/16W
R828	1-216-809-11	METAL CHIP	100	5%	1/16W
R829	1-216-821-11	METAL CHIP	1K	5%	1/16W
R830	1-216-821-11	METAL CHIP	1K	5%	1/16W
R831	1-216-821-11	METAL CHIP	1K	5%	1/16W
R832	1-216-841-11	METAL CHIP	47K	5%	1/16W
R833	1-216-821-11	METAL CHIP	1K	5%	1/16W
R835	1-216-841-11	METAL CHIP	47K	5%	1/16W
R836	1-216-841-11	METAL CHIP	47K	5%	1/16W
R837	1-216-809-11	METAL CHIP	100	5%	1/16W
R838	1-216-821-11	METAL CHIP	1K	5%	1/16W
R840	1-216-821-11	METAL CHIP	1K	5%	1/16W
R841	1-216-821-11	METAL CHIP	1K	5%	1/16W
R842	1-216-821-11	METAL CHIP	1K	5%	1/16W
R843	1-216-821-11	METAL CHIP	1K	5%	1/16W
R844	1-216-835-11	METAL CHIP	15K	5%	1/16W
R845	1-216-841-11	METAL CHIP	47K	5%	1/16W
R846	1-216-821-11	METAL CHIP	1K	5%	1/16W
R847	1-216-821-11	METAL CHIP	1K	5%	1/16W
R848	1-216-809-11	METAL CHIP	100	5%	1/16W
R849	1-216-841-11	METAL CHIP	47K	5%	1/16W
R850	1-216-821-11	METAL CHIP	1K	5%	1/16W
R853	1-216-819-11	METAL CHIP	680	5%	1/16W (S36L)
R854	1-216-841-11	METAL CHIP	47K	5%	1/16W
R859	1-216-821-11	METAL CHIP	1K	5%	1/16W
R860	1-216-841-11	METAL CHIP	47K	5%	1/16W
R861	1-216-821-11	METAL CHIP	1K	5%	1/16W
R862	1-216-821-11	METAL CHIP	1K	5%	1/16W
R865	1-216-841-11	METAL CHIP	47K	5%	1/16W
R866	1-216-845-11	METAL CHIP	100K	5%	1/16W
R867	1-216-819-11	METAL CHIP	680	5%	1/16W
R868	1-216-819-11	METAL CHIP	680	5%	1/16W
R869	1-216-819-11	METAL CHIP	680	5%	1/16W
R870	1-216-819-11	METAL CHIP	680	5%	1/16W
R872	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R873	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R874	1-216-821-11	METAL CHIP	1K	5%	1/16W
R875	1-216-821-11	METAL CHIP	1K	5%	1/16W
R876	1-216-817-11	METAL CHIP	470	5%	1/16W
R951	1-216-841-11	METAL CHIP	47K	5%	1/16W
R952	1-216-821-11	METAL CHIP	1K	5%	1/16W
R954	1-216-821-11	METAL CHIP	1K	5%	1/16W
R955	1-216-821-11	METAL CHIP	1K	5%	1/16W
R958	1-216-815-11	METAL CHIP	330	5%	1/16W

Ref. No.	Part No.	Description			Remark
R960	1-216-809-11	METAL CHIP	100	5%	1/16W
		< TRANSFORMER >			
T1	1-433-741-11	TRANSFORMER, IF			
T2	1-419-465-11	COIL (DET)			
		< VIBRATOR >			
X1	1-760-130-11	VIBRATOR, CRYSTAL (75kHz)			
X801	1-795-267-11	VIBRATOR, CRYSTAL (32.768kHz)			
X802	1-781-775-21	VIBRATOR, CERAMIC (4.19MHz)			
**********					
*	1-679-969-11	POWER (1) BOARD			
		**********			
	1-533-233-31	HOLDER, FUSE			
		< CAPACITOR >			
C901	1-162-995-11	CERAMIC CHIP	0.022uF		50V
C902	1-162-995-11	CERAMIC CHIP	0.022uF		50V
C903	1-162-995-11	CERAMIC CHIP	0.022uF		50V
C904	1-162-995-11	CERAMIC CHIP	0.022uF		50V
C906	1-126-964-11	ELECT	10uF	20%	50V
		< AC INLET >			
⚠CNJ901	1-526-838-11	INLET, AC 2P (~ AC IN)			
		< CONNECTOR >			
CNP901	1-695-105-11	PIN, CONNECTOR (PC BOARD) 3P			
* CNP902	1-580-165-21	PIN, CONNECTOR (PC BOARD) 4P			
		< DIODE >			
D901	8-719-063-79	DIODE 1N4002B			
D902	8-719-063-79	DIODE 1N4002B			
D903	8-719-063-79	DIODE 1N4002B			
D904	8-719-063-79	DIODE 1N4002B			
		< FUSE >			
⚠F902	1-533-469-11	FUSE, TIME-LAG (T2.5AL/250V)			
		< CABLE HOLDER >			
* KH903	1-573-287-11	HOLDER, CABLE 2P			
**********					
*	1-679-970-11	POWER (2) BOARD			
		**********			
		< CABLE HOLDER >			
* KH905	1-573-287-11	HOLDER, CABLE 2P			
**********					

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref. No.	Part No.	Description			Remark
*	A-3347-189-A	PRE BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C101	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C102	1-104-664-11	ELECT	47uF	20%	10V
C103	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C104	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C105	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C106	1-126-960-11	ELECT	1uF	20%	50V
C107	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C201	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C202	1-104-664-11	ELECT	47uF	20%	10V
C203	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C204	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C205	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C206	1-126-960-11	ELECT	1uF	20%	50V
C207	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C301	1-104-665-11	ELECT	100uF	20%	10V
C302	1-104-665-11	ELECT	100uF	20%	10V
C303	1-104-665-11	ELECT	100uF	20%	10V
C304	1-104-664-11	ELECT	47uF	20%	10V
C305	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C306	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C307	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C308	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C310	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
		< CONNECTOR >			
CNP301	1-784-774-11	CONNECTOR, FFC 13P			
		< IC >			
IC301	8-759-264-71	IC TA2068N			
		< JUMPER RESISTOR >			
JC301	1-216-864-11	SHORT	0		
JC302	1-216-864-11	SHORT	0		
JC303	1-216-864-11	SHORT	0		
JC304	1-216-864-11	SHORT	0		
		< TRANSISTOR >			
Q301	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q302	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q303	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
		< RESISTOR >			
R101	1-216-835-11	METAL CHIP	15K	5%	1/16W
R102	1-216-807-11	METAL CHIP	68	5%	1/16W
R103	1-216-843-11	METAL CHIP	68K	5%	1/16W
R104	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R105	1-216-835-11	METAL CHIP	15K	5%	1/16W
R106	1-216-825-11	METAL CHIP	2.2K	5%	1/16W

Ref. No.	Part No.	Description			Remark
R110	1-216-809-11	METAL CHIP	100	5%	1/16W
R111	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R201	1-216-835-11	METAL CHIP	15K	5%	1/16W
R202	1-216-807-11	METAL CHIP	68	5%	1/16W
R203	1-216-843-11	METAL CHIP	68K	5%	1/16W
R204	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R205	1-216-835-11	METAL CHIP	15K	5%	1/16W
R206	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R210	1-216-025-11	RES-CHIP	100	5%	1/10W
R211	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R301	1-216-857-11	METAL CHIP	1M	5%	1/16W
R302	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R303	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R304	1-216-821-11	METAL CHIP	1K	5%	1/16W
R305	1-216-811-11	METAL CHIP	150	5%	1/16W
R306	1-216-831-11	METAL CHIP	6.8K	5%	1/16W
R307	1-216-799-11	METAL CHIP	15	5%	1/16W
R308	1-216-837-11	METAL CHIP	22K	5%	1/16W
R309	1-216-805-11	METAL CHIP	47	5%	1/16W
R310	1-216-857-11	METAL CHIP	1M	5%	1/16W
R311	1-216-857-11	METAL CHIP	1M	5%	1/16W
R312	1-216-821-11	METAL CHIP	1K	5%	1/16W
R313	1-216-821-11	METAL CHIP	1K	5%	1/16W
		< SWITCH >			
S301	1-762-565-11	SWITCH, SLIDE (REC/PB)			
		< TRANSFORMER >			
T301	1-416-041-11	TRANSFORMER, BIAS OSCILLATION			

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Ref. No.	Part No.	Description	Remark
		MISCELLANEOUS	
		**********	
* 11	1-757-559-11	CABLE, FLAT 8P	
* 102	1-757-714-11	CABLE, FLEXIBLE FLAT 13P	
117	1-452-899-11	MAGNET	
124	1-757-689-11	CABLE, FLEXIBLE FLAT 16P	
* 125	1-757-561-11	CABLE, FLAT 14P	
⚠251	8-848-483-05	PICK-UP, OPTICAL KSS-213C/Q-RP	
255	X-2646-381-1	CHASSIS ASSY (MB), MOTOR (SPINDLE)	(including M701)
ANT1	1-501-883-21	ANTENNA, TELESCOPIC	
⚠F902	1-533-469-11	FUSE, TIME-LAG (T2.5AL/250V)	
HE301	1-543-876-11	HEAD (ERASE)	
HRP301	1-500-668-11	HEAD, MAGNETIC (RECORD/PLAYBACK)	
M702	X-2625-769-1	GEAR ASSY (MB), MOTOR (SLED)	
M801	A-3320-446-A	MOTOR ASSY (CAPSTAN/REEL)	
S801	1-692-960-11	SWITCH, PUSH (1 KEY)	(⏏ PUSH OPEN/CLOSE)
S802	1-762-679-11	SWITCH, LEAF (TAPE PLAY)	
SP301	1-529-723-21	SPEAKER (10cm) (L-CH)	
SP302	1-529-723-21	SPEAKER (10cm) (R-CH)	
⚠T901	1-435-918-11	TRANSFORMER, POWER (S36L)	
⚠T901	1-435-921-11	TRANSFORMER, POWER (S26L)	
**********			
		ACCESSORIES & PACKING MATERIALS	
		**********	
⚠	1-696-820-21	CORD, POWER	
⚠	1-770-019-11	ADAPTOR, CONVERSION PLUG 3P (S26L:UK)	
	3-027-153-11	LID, BATTERY CASE (for RMT-CS36AD) (S36L)	
	3-227-155-41	MANUAL, INSTRUCTION (ENGLISH,SPANISH)	(AEP,UK)
	3-227-155-51	MANUAL, INSTRUCTION (FRENCH,GERMAN)	(AEP)
	3-227-155-61	MANUAL, INSTRUCTION (DUTCH,PORTUGUESE)	(AEP)
	3-227-155-71	MANUAL, INSTRUCTION (ITALIAN) (IT)	
	3-227-155-81	MANUAL, INSTRUCTION (SWEDISH,FINNISH)	(CET)
	3-227-155-91	MANUAL, INSTRUCTION (POLISH) (CET)	
	3-230-890-11	MANUAL, INSTRUCTION (RUSSIAN,SLOVAKIAN)	(CET)
	3-230-890-21	MANUAL, INSTRUCTION (CZECH,HUNGARIAN)	(CET)
	A-3258-086-A	REMOTE COMMANDER (RMT-CS36AD) (S36L)	
**********			
		**********	
		HARDWARE LIST	
		**********	
#1	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S	
#2	7-685-648-79	SCREW +BVTP 3X12 TYPE2 N-S	
#3	7-685-853-04	SCREW +BVTT 2X6 (S)	
#4	7-621-770-87	SCREW +B 2.6X5	
#5	7-682-548-04	SCREW +B 3X8	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

MEMO

REVISION HISTORY

Clicking the version allows you to jump to the revised page.
Also, clicking the version at the upper right on the revised page allows you to jump to the next revised page.

Ver.	Date	Description of Revision
1.1	2001. 04	Addition of Italian model
1.0	2001. 02	New